

TABLE 41. Domestic R&D paid for by the company and performed by others, by type of performer, industry, and company size: 2014

(Millions of U.S. dollars)

Industry and company size	NAICS code	Total	Companies	Companies outside the		U.S. federal government agencies	U.S. state government agencies	Foreign government agencies	All other		Undistributed ^a
			in the United States	Company's parent	Other				In the United States	Outside the United States	
All industries	21-23, 31-33, 42-81	37,019	29,080	675	4,021	77 i	8	1	463	98	2,597 i
Manufacturing industries	31-33	33,412	26,650	620	3,673	45 i	5	*	371	70	1,978 i
Food	311	509 i	442 i	2	20 i	*	*	*	16	1	29 i
Beverages and tobacco products	312	206	198	* i	2	0	* i	* i	4	0	2 i
Textiles, apparel, and leather products	313-16	13	9	1	0	0	*	0	0	0	2 i
Wood products	321	14 i	12 i	0	0	*	*	0	*	1 i	1 i
Paper	322	25	10	11	*	0	0	0	1	0	2 i
Printing and related support activities	323	7	5	0	1	0	0	0	0	0	2 i
Petroleum and coal products	324	45	31	0	2	0	0	0	8	2	3 i
Chemicals	325	25,016	19,963	28	3,229	15 i	3	*	205	44	1,529 i
Basic chemicals	3251	187	102	5	D	* i	*	*	62	2	D
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	73	66	0	D	0	*	0	1	0	D
Pesticides, fertilizers, and other agricultural chemicals	3253	141 i	107 i	D	D	* i	* i	* i	1	*	D
Pharmaceuticals and medicines	3254	24,240	19,355	15	3,188	15 i	2	*	132	38	1,494 i
Soaps, cleaning compounds, and toilet preparations	3256	346	312	D	9	0	0	0	9	3	D
Paints, coatings, adhesives, and other chemicals	3255, 3259	29	20	*	*	* i	* i	*	1	1	7 i
Plastics and rubber products	326	163	62	6	36	*	*	0	29	7	22 i
Nonmetallic mineral products	327	170 i	24	141 i	0	0	*	0	2	1	3 i
Primary metals	331	49	9	* i	*	* i	* i	0	33	*	6 i
Fabricated metal products	332	31 i	18	0	1	0	*	0	1	0	12 i
Machinery	333	588	447	7	56	3 i	*	0	6	10	60 i
Agricultural implements	33311	267	222	0	30	0	0	0	0	10	5 i
Semiconductor machinery	333295	3	2	0	0	0	0	0	0	0	1 i
Engines, turbines, and power transmission equipment	3336	47	41	0	2	* i	0	0	4	* i	1 i
Other machinery	other 333	271	181	7	24	3 i	*	0	2 i	* i	54 i
Computer and electronic products	334	1,505	1,201	5	178 i	*	*	0	22	*	99 i
Communications equipment	3342	593	466 i	* i	90 i	*	* i	0	* i	*	37 i
Semiconductors and other electronic components	3344	383	332	3	33	0	0	0	5	*	11 i
Navigational, measuring, electromedical, and control instruments	3345	392	308	1	42	*	*	0	17	0	24 i
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	156	114	1	29 i	0	0	0	8	0	5 i
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	123	112	*	8	0	0	0	1	0	2 i

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Other measuring and controlling devices	other 3345	114	82	0	6	*	*	0	8	0	18 i
Other computer and electronic products	other 334	136	96	*	13	0	0	0	0	*	27 i
Electrical equipment, appliances, and components	335	239	169	2	20	* i	* i	0	2	1	44 i
Transportation equipment	336	4,101	3,416	407	111	25 i	2	0	22	1	118 i
Automobiles, bodies, trailers, and parts	3361-63	2,578	1,980	406	77	D	2	0	7	1	D
Aerospace products and parts	3364	1,505	1,420	1 i	33	D	* i	0	D	*	13 i
Aircraft, aircraft engines, and aircraft parts	336411-13	D	D	1 i	D	D	* i	0	D	*	D
Guided missiles, space vehicles, and related parts	336414-15, 336419	D	D	0	D	0	0	0	*	0	D
Military armored vehicles, tanks, and tank components	336992	*	*	0	0	0	0	0	0	0	* i
Other transportation	other 336	19	16	*	1	0	0	0	D	0	D
Furniture and related products	337	26	18	0	0	0	0	0	0	0	8 i
Miscellaneous manufacturing	339	707	616	10	18	2	*	0	21	3	38 i
Medical equipment and supplies	3391	599	523	10	16	2	*	0	20	3	25 i
Other miscellaneous manufacturing	3399	107	94	*	1	*	0	0	*	0	12 i
Nonmanufacturing industries	21-23, 42-81	3,607	2,430	55	348	31	3	1	92	28	620 i
Mining, extraction, and support activities	21	352	279	D	6	D	*	1	23	1	D
Utilities	22	232	167	0	1	*	1	0	44	0	19 i
Wholesale trade	42	75 i	13 i	*	3	0	0	0	0	0	58 i
Electronic shopping and electronic auctions	454111-12	0	0	0	0	0	0	0	0	0	0
Transportation and warehousing	48-49	21 i	18	0	0	0	0	0	0	0	3 i
Information	51	1,761	1,247	*	213	* i	* i	0	17	27	257 i
Publishing	511	1,181	886	*	180	0	0	0	13	22	80 i
Newspaper, periodical, book, and directory publishers	5111	10 i	6	0	* i	0	0	0	0	0	3 i
Software publishers	5112	1,172	879	*	179	0	0	0	13	22	77 i
Telecommunications	517	274 i	107	0	16	0	0	0	0	0	151 i
Data processing, hosting, and related services	518	174	128	0	16	* i	* i	0	1	5	23 i
Other information	other 51	132	126	0	1	0	0	0	3	0	3 i
Finance and insurance	52	90	49	16	24 i	0	0	0	0	0	1 i
Real estate and rental and leasing	53	8 i	6 i	0	*	0	0	0	0	0	1 i
Lessors of nonfinancial intangible assets (except copyrighted works)	533	*	0	0	*	0	0	0	0	0	* i
Other real estate and rental and leasing	other 53	8 i	6 i	0	0	0	0	0	0	0	1 i
Professional, scientific, and technical services	54	957	588	D	95	D	2	0	7	1	D
Architectural, engineering, and related services	5413	50 i	26	* i	2	* i	*	0	*	0	20 i

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Computer systems design and related services	5415	146 i	57	0	17	* i	* i	0	*	*	71 i
Scientific R&D services	5417	717	488	0	65	D	2	0	6	1	D
Biotechnology R&D	541711	350	247	0	D	*	1	0	3	*	D
Physical, engineering, and life sciences (except biotechnology) R&D	541712	346	237	0	28	D	*	0	3	*	D
Social sciences and humanities R&D	541720	21	4	0	D	0	0	0	0	0	D
Other professional, scientific, and technical services	other 54	45	16	D	10	* i	* i	0	1	*	D
Health care services	621-23	35 i	15	0	5	0	0	0	*	0	15 i
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	76 i	48	0	1	*	0	0	0	0	27 i
All companies (number of domestic employees)	-	37,019	29,080	675	4,021	77 i	8	1	463	98	2,597 i
Small companies ^b											
5-499	-	5,839	4,225	37	440	15	4	*	90	7	1,021 i
5-99	-	3,698	2,732	6	259	14	2	* i	38	4	644 i
5-49	-	2,303	1,634	2	160	1 i	1	0	26	1	477 i
5-9	-	485 i	347	* i	16	*	0	0	4	1	118 i
10-24	-	873	599	0	51	1 i	1	0	4	1	215 i
25-49	-	946	688	2	93	* i	* i	0	18	* i	144 i
50-99	-	1,395	1,098	4	99	13	*	* i	11 i	3	167 i
100-249	-	1,296	903	2	117	1	2	0	42	2	228 i
250-499	-	845	590	29	64	*	*	*	11	* i	150 i
Medium and large companies											
500-999	-	1,110	822	30	61	1	1	* i	12	27	156 i
1,000-4,999	-	6,390	5,666	210 i	84	5	*	* i	22	2	399 i
5,000-9,999	-	2,401	2,094	1 i	73	10 i	D	*	84	2	D
10,000-24,999	-	10,971	8,651	D	1,955	3 i	*	*	161	45	D
25,000 or more	-	10,308	7,622	D	1,407	42 i	D	1	92	15	D

* = 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 Detailed data were not collected on the BRDI-1(S) questionnaire.

^b 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: 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.

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