

TABLE 47. Domestic R&D paid for by the company and performed by others, by type of performer, industry, and company size: 2013  
(Millions of U.S. dollars)

Industry and company size	NAICS code	Total	Companies outside United States						All other		
			Companies in United States	Companies outside United States		U.S. federal government agencies	U.S. state government agencies	Foreign government agencies	In United States	United States	Undistributed <sup>a</sup>
				Company's parent	Other						
All industries	21-23, 31-33, 42-81	33,165	27,056	536	2,859	71	20	1	730	341	1,550 i
Manufacturing industries	31-33	29,974	25,075	506	2,565	49	12	1	584	D	D
Food	311	533	372 i	1	37	*	*	0	19 i	8 i	96 i
Beverage and tobacco products	312	217	199	0	4	0	0	0	2	0	12 i
Textile, apparel, and leather products	313-16	25	18	D	1	*	0	0	*	0	D
Wood products	321	9	D	0	0	0	*	0	*	0	D
Paper	322	17	D	8	1	0	0	0	*	0	D
Printing and related support activities	323	8	D	0	0	0	0	0	0	0	D
Petroleum and coal products	324	331	D	0	1	0	0	0	5	D	D
Chemicals	325	21,205	18,210	22	2,131	10	4	*	236	117	475 i
Basic chemicals	3251	163	81	5	7	0	1	*	56	0	11 i
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	54	38	1	10	0	*	0	1	1	3 i
Pesticide, fertilizer, and other agricultural chemicals	3253	32 i	23	5 i	*	0	0	0	1	*	2 i
Pharmaceuticals and medicines	3254	20,614	17,770	9	2,102	10	2	0	169	111	440 i
Soap, cleaning compound, and toilet preparation	3256	307	272	0	11	0	0	0	8	3	13 i
Paint, coating, adhesive, and other chemicals	3255, 3259	36	26	2	*	0	0	*	1	1	5 i
Plastics and rubber products	326	177	74	*	38	*	*	0	37	7	20 i
Nonmetallic mineral products	327	158 i	29	119 i	1	0	0	0	2	0	8 i
Primary metals	331	59	42	0	0	0	*	0	1	0	15 i
Fabricated metal products	332	39 i	23	0	*	0	0	0	0	0	16 i
Machinery	333	527	372	1	73	*	*	*	36	0	44 i
Agricultural implement	33311	296	212	0	48	0	0	0	26	0	10 i
Semiconductor machinery	333295	17	16	0	*	0	*	* i	*	0	1 i
Engine, turbine, and power transmission equipment	3336	40 i	39 i	0	*	* i	*	*	0	0	* i
Other machinery	other 333	174	106	1	24	*	0	0	10	0	33 i
Computer and electronic products	334	1,514	1,012	1	116	1 i	* i	0	193	D	D
Communications equipment	3342	571	374	0	65	0	0	0	D	D	D
Semiconductor and other electronic components	3344	396	232	* i	28	* i	* i	0	D	*	D
Navigational, measuring, electromedical, and control instruments	3345	347	260	1	16	1 i	0	0	23	*	46 i
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	162	112	1	9	0	0	0	14	*	26 i
Search, detection, navigation, guidance, aeronautical, and nautical system and instrument	334511	90	78 i	0	7 i	1 i	0	0	0	0	5 i

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				Company's parent	Other						
Other measuring and controlling device	other 3345	95	70	0	1	0	0	0	9	*	15 i
Other computer and electronic products	other 334	199	147	0	7	0	0	0	D	*	D
Electrical equipment, appliances, and components	335	106	83	*	4	0	*	0	2	0	16 i
Transportation equipment	336	4,269	3,670	D	138	36	6	*	16	2	D
Automobiles, bodies, trailers, and parts	3361, 3362, 3363	2,405	1,925	D	109	D	2	0	2	1	D
Aerospace products and parts	3364	1,830	1,718	0	25	D	4	*	14	*	D
Aircraft, aircraft engine, and aircraft parts	336411-13	D	D	0	25	D	4	*	D	*	D
Guided missile, space vehicle, and related parts	336414-15, 336419	D	D	0	0	D	0	0	D	0	* i
Military armored vehicle, tank, and tank components	336992	*	*	0	0	0	0	0	0	0	* i
Other transportation	other 336	34	26	0	4	0	0	0	0	0	5 i
Furniture and related products	337	23	15	0	*	0	0	0	0	0	8 i
Miscellaneous manufacturing	339	758	624	*	21	1	1	0	32	2	76 i
Medical equipment and supplies	3391	594	486	*	20	1	1	0	32	2	53 i
Other miscellaneous manufacturing	3399	164	139	0	2	*	0	0	*	* i	23 i
Nonmanufacturing industries	21-23, 42-81	3,191	1,981	30	295	22	8	0	146	D	D
Mining, extraction, and support activities	21	390	195	0	D	D	0	0	23	D	D
Utilities	22	201	147	0	*	*	2	0	45	*	7 i
Wholesale trade	42	149 i	16	3	1	0	0	0	0	0	130 i
Electronic shopping and electronic auctions	454111-12	0	0	0	0	0	0	0	0	0	0
Transportation and warehousing	48-49	27	25	0	0	0	0	0	0	0	2 i
Information	51	1,500	1,060	9	210	0	*	0	5	*	217 i
Publishing	511	1,058	701	9	188	0	*	0	5	*	156 i
Newspaper, periodical, book, and directory publishers	5111	17 i	3	0	0	0	0	0	0	0	14 i
Software publishers	5112	1,041	698	9	188	0	*	0	5	*	142 i
Telecommunications	517	162	134	0	9	0	0	0	0	0	19 i
Data processing, hosting, and related services	518	162	120	0	12	0	0	0	0	0	30 i
Other information	other 51	118	105	0	1	0	0	0	0	0	12 i
Finance and insurance	52	80	38	12	D	0	0	0	0	0	D
Real estate and rental and leasing	53	3	3	0	0	0	0	0	0	0	1 i
Lessors of nonfinancial intangible assets (except copyrighted works)	533	* i	0	0	0	0	0	0	0	0	* i
Other real estate and rental and leasing	other 53	3	3	0	0	0	0	0	0	0	1 i
Professional, scientific, and technical services	54	786	454	5	48	D	7	0	74	4	D
Architectural, engineering, and related services	5413	63	39	0	7	0	0	0	*	0	17 i
Computer systems design and related services	5415	166 i	86	1	9	0	0	0	*	2	68 i
Scientific research and development services	5417	471	267	5	33	D	7	0	73	2	D
Biotechnology research and development	541711	255	195	5	16	D	6	0	1	1	D

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Physical, engineering, and life sciences (except biotechnology) research and development	541712	216	72	0	17 i	10	*	0	71	2	44 i
Social sciences and humanities research and development	541720	0	0	0	0	0	0	0	0	0	0
Other professional, scientific, and technical services	other 54	87	61	0	*	0	0	0	2	*	23 i
Health care services	621-23	2 i	2 i	0	0	0	0	0	0	0	* i
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	53 i	41	0	*	*	*	0	0	0	11 i
All companies (number of domestic employees)	-	33,165	27,056	536	2,859	71	20	1	730	341	1,550 i
Small companies <sup>b</sup>											
5-499	-	4,955	3,390	35	343	12	10	*	139	18	1,010 i
5-99	-	3,229	2,175	13	207	11	9	0	122	14	677 i
5-49	-	2,202	1,444	13	95	2 i	1 i	0	115	13	520 i
5-9	-	282 i	129	8	6	1 i	* i	0	8	10	119 i
10-24	-	984	693	5	15	* i	* i	0	29	1	241 i
25-49	-	936	622	* i	73	*	* i	0	78	3	159 i
50-99	-	1,026	732	* i	112	9	9	0	7	*	157 i
100-249	-	1,035	735	7	76	1	*	*	10	4	202 i
250-499	-	692	479	14	60	* i	* i	* i	6 i	* i	132 i
Medium and large companies											
500-999	-	814	631	29	41	*	2	0	14	1	95 i
1,000-4,999	-	5,762	5,265	123 i	96	*	*	*	149	5	123 i
5,000-9,999	-	1,148	907	D	75	9	1	0	42	1	D
10,000-24,999	-	9,830	8,745	2	834	1 i	2	0	145	27	74 i
25,000 or more	-	10,655	8,118	D	1,470	49	6	*	241	289	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 = 2007 North American Industry Classification System.

<sup>a</sup> Detailed data were not collected on the BRD-1(S) questionnaire.

<sup>b</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.