

TABLE 27. Domestic R&D paid for by the company and performed by others, by type of performer, industry, and company size: 2011  
(Millions of U.S. dollars)

Industry and company size	NAICS code	Total	Companies in United States	Companies outside United States		U.S. federal government agencies	U.S. state government agencies	Foreign government agencies	All other		Undistributed <sup>a</sup>
				Company's parent	Other <sup>a</sup>				In United States	Outside United States	
All industries	21-23, 31-33, 42-81	29,608	21,921	440	4,269 i	175	10	8	688	144	1,954
Manufacturing industries	31-33	23,588	19,095	432	2,454	D	10	8	562	133	D
Food	311	423	322 i	19	17 i	*	1	0	7	0	59
Beverage and tobacco products	312	164	158	0	D	0	0	0	D	0	D
Textile, apparel, and leather products	313-316	D	3	0	2 i	0	0	0	D	0	D
Wood products	321	10	5	0	0	0	0	0	0	0	5
Paper	322	65	42	0	D	0	0	0	8	D	D
Printing and related support activities	323	6	2	0	*	0	0	0	0	0	4
Petroleum and coal products	324	D	D	0	D	D	0	0	D	D	D
Chemicals	325	15,735	13,100	33 i	1,925	14	2	1	397	111	153
Basic chemicals	3251	287	90	D	116 i	D	2	0	D	D	15
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	26	18	0	4	D	*	0	D	*	3
Pesticide, fertilizer, and other agricultural chemical	3253	67	34	D	* i	0	0	0	D	0	D
Pharmaceuticals and medicines	3254	14,938	12,595	D	1,793	D	*	1	339	100	101
Soap, cleaning compound, and toilet preparation	3256	336	306	0	10 i	0	0	0	9	3	8
Paint, coating, adhesive, and other chemicals	3255, 3259	82	57	D	1	0	0	0	3	D	D
Plastics and rubber products	326	72	12	0	23 i	0	0	0	*	0	37
Nonmetallic mineral products	327	207	D	157	*	D	0	0	D	0	D
Primary metals	331	119	31	73	1 i	0	0	0	1	*	13
Fabricated metal products	332	54	6	4	3 i	0	0	0	0	0	42
Machinery	333	833	660	0	25	1	*	1	35	D	D
Agricultural implement	33311	213	197	0	1 i	0	0	0	D	0	D
Semiconductor machinery	333295	31	25	0	*	0	*	0	0	D	D
Engine, turbine, and power transmission equipment	3336	436	D	0	D	1	0	1	D	D	D
Other machinery	other 333	153	D	0	D	0	*	0	D	0	D
Computer and electronic products	334	1,717	1,334	10	146	6	5	5	46	7	159
Communications equipment	3342	689	598	1	40	5	5	5	5	5	26
Semiconductor and other electronic components	3344	325	252	*	32	*	0	0	3	*	38
Navigational, measuring, electromedical, and control instruments	3345	338	177	9	38 i	*	0	0	36	2	76
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	125	47	5	18	0	0	0	32	0	23
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	D	75	0	11 i	*	0	0	2	*	D
Other measuring and controlling device	other 3345	D	55	4 i	10 i	*	0	0	3	1	D
Other computer and electronic products	other 334	366	308	0	36	*	0	0	2	*	19
Electrical equipment, appliances, and components	335	144	84	0	13 i	*	0	0	5	0	41
Transportation equipment	336	3,134	2,665	137	233	30	2	*	12	1	55
Motor vehicles, bodies, trailers, and parts	3361, 3362, 3363	D	1,967	137	114	D	2	0	D	1	D
Aerospace products and parts	3364	D	575	0	109	D	*	*	D	0	D
Aircraft, aircraft engine, and aircraft parts	336411-13	D	490	0	D	D	*	0	D	0	D

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Guided missile, space vehicle, and related parts	336414-15, 336419	90	85	0	D	D	0	*	D	0	D
Military armored vehicle, tank, and tank component	336992	D	D	0	0	0	0	0	0	0	0
Other transportation equipment	other 336	D	D	0	10	0	0	0	0	0	D
Furniture and related products	337	8	1	0	1	0	0	0	0	0	6
Miscellaneous manufacturing	339	D	474	0	46	1	*	1	13	2	D
Medical equipment and supplies	3391	558	419	0	43	1	*	1	13	2	80
Other miscellaneous manufacturing	3399	D	56	0	3 i	*	0	0	0	0	D
Nonmanufacturing industries	21-23, 42-81	6,019	2,827	8	1,814 i	D	1	* i	126	11	D
Mining, extraction, and support activities	21	295	135	D	3	D	*	*	73	D	D
Utilities	22	277	176	0	0	0	0	0	31	0	71
Wholesale trade	42	294 i	19 i	0	147 i	0	0	0	0	0	127
Electronic shopping and electronic auctions	454111-12	D	0	0	1	0	0	0	0	0	D
Transportation and warehousing	48-49	9	*	0	0	0	0	0	0	0	9
Information	51	2,180 i	1,067	D	987 i	0	*	0	4	D	D
Publishing	511	1,004	877	D	66 i	0	*	0	4	D	D
Newspaper, periodical, book, and directory publishers	5111	12	3	0	0	0	0	0	0	0	9
Software publishers	5112	992	874	D	66 i	0	*	0	4	D	D
Telecommunications	517	1,007 i	163	0	834 i	0	0	0	0	0	10
Data processing, hosting, and related services	518	D	19 i	0	65	0	0	0	0	0	D
Other information	other 51	D	9	0	22	0	0	0	0	0	D
Finance and insurance	52	111	56	0	38	0	0	0	8	0	9
Real estate and rental and leasing	53	D	D	0	0	0	*	0	0	0	D
Lessors of nonfinancial intangible assets (except copyrighted works)	533	D	D	0	0	0	*	0	0	0	1
Other real estate and rental and leasing	other 53	D	0	0	0	0	0	0	0	0	D
Professional, scientific, and technical services	54	2,698	1,345	D	622 i	D	*	*	10 i	D	D
Architectural, engineering, and related services	5413	86	24	0	25 i	0	0	0	1	*	36
Computer systems design and related services	5415	198	82 i	0	60 i	0	0	0	0	0	57
Scientific research and development services	5417	2,188	1,213	*	509 i	*	*	*	9 i	*	456
Biotechnology research and development	541711	1,859	1,106	*	443 i	*	*	0	2	*	307
Physical, engineering, and life sciences (except biotechnology) research and development	541712	326	106	0	66 i	0	0	*	7 i	*	148
Social sciences and humanities research and development	541720	2 i	0	0	0	0	0	0	0	0	2 i
Other professional, scientific, and technical services	other 54	226	27 i	D	27 i	D	*	0	0	D	D
Health care services	621-23	25	12	0	*	0	0	0	0	0	13
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	D	D	0	16	0	0	0	0	0	D

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All companies (number of domestic employees)	-	29,608	21,921	440	4,269 i	175	10	8	688	144	1,954
Small companies <sup>b</sup>											
5-499	-	5,308	2,405	2 i	1,150 i	1	*	1	52	D	D
5-99	-	3,033	1,036	1 i	817 i	1	0	1	14 i	*	1,164
5-49	-	2,278 i	706	D	654 i	1	0	1	12 i	*	D
5-9	-	317	48	0	79 i	0	0	0	0	0	190
10-24	-	914 i	185	0	292 i	0	0	0	*	*	436
25-49	-	1,048	473	D	284 i	1	0	1	11 i	*	D
50-99	-	755	330	D	163 i	*	0	0	2	*	D
100-249	-	1,064	522	0	168 i	*	*	0	30	1	343
250-499	-	1,211	847	1 i	165 i	*	0	*	8	D	D
Medium and large companies											
500-999	-	621	457	D	63 i	*	*	*	18	D	D
1,000-4,999	-	4,772	3,985	186	390 i	1	1	1	87	7	114
5,000-9,999	-	1,329	1,091	D	94 i	16	D	*	28	3	78
10,000-24,999	-	7,998	6,766	101	805	1	1	*	291	24	9
25,000 or more	-	9,580	7,218	D	1,767	155	D	6	211	D	D

\* = amount < \$500,000; D = data withheld to avoid disclosing operations of individual companies; i = value > 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 BRDI-1A 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, 2011.