

TABLE 14

## Domestic R&amp;D paid for by the company and others and performed by the company, by industry, company size, and domestic R&amp;D program size: 2015

(Millions of U.S. dollars)

Industry	NAICS code	R&D program size					
		All companies	Less than \$1 million	\$1 million–\$9.999 million	\$10 million–\$49.999 million	\$50 million–\$99.999 million	\$100 million or more
All industries	21–23, 31–33, 42–81	355,821	10,035	25,678	33,540	20,364	266,205
Manufacturing industries	31–33	236,132	4,894	12,429	19,250	14,270	185,289
Food	311	4,838	223	539	466	646	2,965
Beverages and tobacco products	312	1,002	D	39	D	D	D
Textiles, apparel, and leather products	313–16	748	120	186	209	232	0
Wood products	321	195	47	47	102	0	0
Paper	322	766	51	96	74	103	440
Printing and related support activities	323	196	67	80	50	0	0
Petroleum and coal products	324	214	D	D	76	D	0
Chemicals	325	68,196	483	2,433	5,590	4,274	55,416
Basic chemicals	3251	3,042	D	D	D	662	D
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	1,201	145	D	148	0	D
Pesticides, fertilizers, and other agricultural chemicals	3253	D	33	D	D	D	2,311
Pharmaceuticals and medicines	3254	58,675	63	1,495	4,304	2,967	49,847
Soaps, cleaning compounds, and toilet preparations	3256	1,398	D	120	226	89	D
Paints, coatings, adhesives, and other chemicals	3255, 3259	D	D	D	D	D	D
Plastics and rubber products	326	2,541	287	731	856	172	496
Nonmetallic mineral products	327	1,259	78	153	198	0	830
Primary metals	331	628	73	161	202	0	192
Fabricated metal products	332	2,261	711	698	593	260	0
Machinery	333	13,426	845	1,761	1,934	1,262	7,625
Agricultural implements	33311	1,531	66	89	98	164	1,113
Semiconductor machinery	333242	3,214	8	36	207	160	2,801
Engines, turbines, and power transmission equipment	3336	2,535	36	54	375	0	2,070
Other machinery	other 333	6,146	734	1,581	1,254	937	1,640
Computer and electronic products	334	72,110	794	2,311	3,844	3,820	61,340
Communications equipment	3342	19,424	121	348	605	1,014	17,336
Semiconductors and other electronic components	3344	30,451	263	696	1,487	1,128	26,877
Navigational, measuring, electromedical, and control instruments	3345	14,128	284	984	1,071	1,104	10,685
Electromedical, electrotherapeutic, and irradiation apparatuses	334510, 334517	2,758	62	295	318	465	1,618
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	7,360	D	112	185	D	6,977
Other measuring and controlling devices	other 3345	4,011	D	577	568	D	2,090
Other computer and electronic products	other 334	8,106	126	283	681	574	6,442
Electrical equipment, appliances, and components	335	4,335	172	607	860	730	1,967
Transportation equipment	336	49,274	335	1,000	2,263	1,408	44,268
Automobiles, bodies, trailers, and parts	3361–63	19,078	D	541	1,509	932	D
Aerospace products and parts	3364	27,464	69	331	463	476	26,125
Aircraft, aircraft engines, and aircraft parts	336411–13	25,817	66	311	439	349	24,651
Guided missiles, space vehicles, and related parts	336414–15, 336419	1,647	3	20	24	127	1,473

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Military armored vehicles, tanks, and tank components	336992	16	4	12	0	0	0
Other transportation	other 336	2,716	D	116	291	0	D
Furniture and related products	337	452	121 i	69	201	62	0
Miscellaneous manufacturing	339	13,690	D	D	D	D	D
Medical equipment and supplies	3391	11,382	197 i	1,195	1,219	759	8,012
Other miscellaneous manufacturing	3399	2,309	i	D	D	D	D
Nonmanufacturing industries	21–23, 42–81	119,690	5,141 i	13,249	14,289	6,094	80,916
Mining, extraction, and support activities	21	4,012	D	D	D	D	3,672
Utilities	22	480	D	53	124	0	D
Wholesale trade	42	1,768	i	859 i	800 i	109 i	0
Electronic shopping and electronic auctions	454111–12	1,533	i	127 i	D	64 i	0
Transportation and warehousing	48–49	403	D	28	D	0	321
Information	51	65,513	787 i	3,028	4,031	3,084	54,583
Publishing	511	33,346	366 i	1,274	1,385	1,394	28,926
Newspaper, periodical, book, and directory publishers	5111	98	i	24 i	29	45	0
Software publishers	5112	33,248	342 i	1,245	1,340	1,394	28,926
Telecommunications	517	3,607	42 i	431	185	201	2,748
Data processing, hosting, and related services	518	9,416	273 i	1,158	2,174	1,263	4,549
Other information	other 51	19,144	105 i	165	288	226	18,360
Finance and insurance	52	5,366	11 i	148	648	87	4,473
Real estate and rental and leasing	53	301	D	13	D	217	0
Lessors of nonfinancial intangible assets (except copyrighted works)	533	68	4 i	D	D	0	0
Other real estate and rental and leasing	other 53	233	D	D	0	217	0
Professional, scientific, and technical services	54	38,626	D	8,437	8,754	D	16,051
Architectural, engineering, and related services	5413	4,128	i	679 i	1,141 i	1,364 i	129
Computer systems design and related services	5415	14,333	1,412 i	2,080 i	3,062	834	6,944
Scientific research and development services	5417	16,329	654 i	4,379	3,199	1,084	i
Biotechnology research and development	541711	5,693	i	175 i	1,391	717	687
Physical, engineering, and life sciences (except biotechnology) research and development	541712	9,931	473 i	2,948	2,463	397	3,650
Social sciences and humanities research and development	541720	705	6 i	40	19	0	640
Other professional, scientific, and technical services	other 54	3,835	D	836	1,129	D	1,278
Health care services	621–23	758	i	71 i	202	64	217
Other nonmanufacturing	23, 44–45 (excluding 454111–12), 55–56, 624, 71–72, 81	930	D	D	D	D	0
All companies (number of domestic employees)	–	355,821	10,035 i	25,678	33,540	20,364	266,205
Micro companies <sup>a</sup>							
5–9	–	2,988	i	1,795 i	1,132 i	62 i	0
Small companies							
10–19	–	5,680	i	2,434 i	2,983	263 i	0
20–49	–	10,249	i	2,825 i	5,468	1,829	127
Medium companies							
50–99	–	11,509	1,358 i	4,623	4,427	393 i	708 i

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		All companies	Less than \$1 million	\$1 million–\$9.999 million	\$10 million–\$49.999 million	\$50 million–\$99.999 million	\$100 million or more
100–249	–	13,602	D	4,838	5,773	1,323	D
Large companies							
250–499	–	13,553	D	2,916	5,673	1,904	D
500–999	–	15,217	134 i	1,679	4,727	4,541	4,136
1,000–4,999	–	58,094	86 i	1,627	7,543	8,068	40,771
5,000–9,999	–	38,838	7 i	175	2,023	2,416	34,218
10,000–24,999	–	59,328	6 i	168	737	1,083	57,334
25,000 or more	–	126,763	2 i	70	482	509	125,700

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.

<sup>a</sup> Business R&D and Innovation Survey does not include companies with fewer than five domestic employees.

**Note(s)**

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. R&D program size classifications are based on R&D performance.

**Source(s)**

National Science Foundation, National Center for Science and Engineering Statistics, and U.S. Census Bureau, Business R&D and Innovation Survey, 2015.