

TABLE 27

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

(Millions of U.S. dollars)

Industry	NAICS code	All companies	R&D program size					
			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	296,677	8,628	i	21,592	27,480	17,880	221,097
Manufacturing industries	31–33	195,792	4,269	i	11,411	16,849	12,992	150,271
Food	311	4,644	208	i	534	368	646	2,889
Beverages and tobacco products	312	885	D		39	164	191	D
Textiles, apparel, and leather products	313–16	715	116	i	158	209	232	0
Wood products	321	188	43	i	43	102	0	0
Paper	322	763	48	i	96	74	103	i 440
Printing and related support activities	323	189	i 60	i	80	50	i 0	0
Petroleum and coal products	324	200	D		42	76	D	0
Chemicals	325	58,769	441	i	2,113	4,796	3,843	47,576
Basic chemicals	3251	2,574	50	i	383	626	629	886
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	1,172	121	i	139	148	0	764
Pesticides, fertilizers, and other agricultural chemicals	3253	2,157	33	i	36	D	D	D
Pharmaceuticals and medicines	3254	50,242	54	i	1,219	3,610	2,570	42,788
Soaps, cleaning compounds, and toilet preparations	3256	1,283	69	i	120	226	89	780
Paints, coatings, adhesives, and other chemicals	3255, 3259	1,339	115	i	216	D	D	D
Plastics and rubber products	326	2,390	250	i	692	824	128	496
Nonmetallic mineral products	327	1,239	74	i	139	197	0	829
Primary metals	331	579	66	i	150	177	0	186
Fabricated metal products	332	2,039	578	i	646	555	260	0
Machinery	333	12,544	717	i	1,675	1,658	1,219	7,275
Agricultural implements	33311	1,516	64	i	76	98	164	1,113
Semiconductor machinery	333242	2,917	8	i	33	133	160	2,583
Engines, turbines, and power transmission equipment	3336	2,381	33	i	47	268	0	2,034
Other machinery	other 333	5,731	612	i	1,520	1,159	894	1,546
Computer and electronic products	334	63,765	693	i	2,087	3,178	3,425	54,382
Communications equipment	3342	17,999	97	i	328	454	1,014	16,106
Semiconductors and other electronic components	3344	28,597	227	i	626	1,219	921	25,604
Navigational, measuring, electromedical, and control instruments	3345	9,218	246	i	865	858	990	6,259
Electromedical, electrotherapeutic, and irradiation apparatuses	334510, 334517	2,525	52	i	256	259	356	1,602
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	2,881	D		87	116	D	2,592
Other measuring and controlling devices	other 3345	3,813	D		522	483	D	2,065
Other computer and electronic products	other 334	7,951	124	i	268	647	500	6,413
Electrical equipment, appliances, and components	335	3,852	153	i	577	775	725	1,622

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Transportation equipment	336	29,224	286	i	888	1,936	1,255	24,859			
Automobiles, bodies, trailers, and parts	3361–63	16,636	173	i	484	1,226	858	13,896			
Aerospace products and parts	3364	11,138	64	i	311	426	397	9,940			
Aircraft, aircraft engines, and aircraft parts	336411–13	10,754	62	i	304	409	270	9,710			
Guided missiles, space vehicles, and related parts	336414–15, 336419	385	i	2	i	8	17	127	230	i	
Military armored vehicles, tanks, and tank components	336992	5	4		*	i	0	0	0		
Other transportation	other 336	1,445	45	i	93	284	0	1,023			
Furniture and related products	337	443	113	i	68	201	62	0			
Miscellaneous manufacturing	339	13,365	D		1,386	1,510	D	D			
Medical equipment and supplies	3391	11,211	176	i	1,134	1,181	742	7,978			
Other miscellaneous manufacturing	3399	2,154	i	D	252	329	D	D			
Nonmanufacturing industries	21–23, 42–81	100,885	4,359	i	10,180	10,631	4,888	70,826			
Mining, extraction, and support activities	21	3,393	D		146	69	D	3,088			
Utilities	22	446	D		50	93	0	D			
Wholesale trade	42	1,684	i	815	i	763	i	106	i	0	0
Electronic shopping and electronic auctions	454111–12	1,517	i	111	i	D	64	i	0	D	
Transportation and warehousing	48–49	403	D		28	D	0	321			
Information	51	64,578	751	i	2,870	3,970	3,025	53,962			
Publishing	511	32,598	360	i	1,205	1,366	1,335	28,333			
Newspaper, periodical, book, and directory publishers	5111	98	i	24	i	29	45	0	0		
Software publishers	5112	32,500	336	i	1,175	1,321	1,335	28,333			
Telecommunications	517	3,537	40	i	372	177	201	2,748			
Data processing, hosting, and related services	518	9,314	246	i	1,144	2,140	1,263	4,522			
Other information	other 51	19,129	105	i	150	288	226	18,360			
Finance and insurance	52	5,329	11	i	145	648	87	4,438			
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	232	D		D	0	217	0			
Professional, scientific, and technical services	54	21,915	2,459	i	5,680	5,240	1,130	7,406			
Architectural, engineering, and related services	5413	2,247	i	394	i	810	i	849	i	127	67
Computer systems design and related services	5415	12,418	1,311	i	1,792	2,427	834	6,054			
Scientific research and development services	5417	3,896	406	i	2,382	1,093	7	8			
Biotechnology research and development	541711	1,536	i	92	i	963	i	480	2	*	i
Physical, engineering, and life sciences (except biotechnology) research and development	541712	2,348	311	i	1,411	614	5	8			

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Social sciences and humanities research and development	541720	12 i	3 i	8 i	*	0	0
Other professional, scientific, and technical services	other 54	3,354	348	695 i	871	163	1,277
Health care services	621–23	460	45	136 i	64	215	0
Other nonmanufacturing	23, 44–45 (excluding 454111–12), 55–56, 624, 71–72, 81	861	D	D	D	D	0
All companies (number of domestic employees)	–	296,677	8,628	21,592 i	27,480	17,880	221,097
Micro companies <sup>a</sup>							
5–9	–	1,972 i	1,354 i	557 i	62 i	0	0
Small companies							
10–19	–	4,434 i	2,139 i	2,196	99	0	0
20–49	–	7,933 i	2,408 i	3,988	1,410	127	0
Medium companies							
50–99	–	8,803	1,245	4,097 i	2,447	306	708 i
100–249	–	11,037	906	4,516 i	4,097	1,012	506
Large companies							
250–499	–	11,368	359	2,723 i	5,153	1,447	1,687
500–999	–	13,194	124	1,574 i	4,252	3,438	3,806
1,000–4,999	–	48,264	81	1,540 i	6,871	7,619	32,154
5,000–9,999	–	34,660	6	169 i	1,993	2,378	30,115
10,000–24,999	–	48,450	6	165 i	699	1,045	46,535
25,000 or more	–	106,562	2	67 i	397	509	105,586

\* = amount &lt; \$500,000; D = data withheld to avoid disclosing operations of individual companies; i = &gt; 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&amp;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&amp;D. R&amp;D program size classifications are based on R&amp;D performance.

**Source(s)**

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