

TABLE 14. Domestic R&D paid for by the company and others and performed by the company, by industry, company size, and domestic R&D program size: 2014
(Millions of U.S. dollars)

Industry	NAICS codes	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	340,728	9,448 i	26,406	31,985	18,818	254,071
Manufacturing industries	31–33	232,815	4,678 i	13,377	19,634	12,995	182,132
Food	311	5,292 i	236 i	999	625	366	3,066 i
Beverages and tobacco products	312	920	D	D	D	187	D
Textiles, apparel, and leather products	313–16	631	92 i	155	198	187	0
Wood products	321	362 i	20 i	65 i	277 i	0	0
Paper	322	723	60 i	105	111	110 i	338
Printing and related support activities	323	234	50 i	101	84	0	0
Petroleum and coal products	324	234	D	55	100	D	0
Chemicals	325	66,301	575 i	2,537	5,847	2,765	54,577
Basic chemicals	3251	2,849	81 i	386	711	486	1,185
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	1,152	47 i	175	137	0	793
Pesticides, fertilizers, and other agricultural chemicals	3253	1,790 i	D	D	D	0	1,634 i
Pharmaceuticals and medicines	3254	56,612	150 i	1,600	4,429	2,010	48,424
Soaps, cleaning compounds, and toilet preparations	3256	2,547	104 i	154	253	95	1,941
Paints, coatings, adhesives, and other chemicals	3255, 3259	1,350 i	D	D	D	174 i	601 i
Plastics and rubber products	326	3,574	D	589	562	D	D
Nonmetallic mineral products	327	1,445 i	D	175	190	95	D
Primary metals	331	677	D	130	278	0	D
Fabricated metal products	332	2,131 i	542 i	741	D	D	0
Machinery	333	12,128	797 i	1,719	2,035	1,221	6,356
Agricultural implements	33311	1,578	D	96	90	171	D
Semiconductor machinery	333295	2,941	19 i	93 i	266	151 i	2,412
Engines, turbines, and power transmission equipment	3336	2,347	D	D	135	D	D
Other machinery	other 333	5,261	D	D	1,543	D	D
Computer and electronic products	334	73,891	801 i	2,493	3,379	4,147	63,071
Communications equipment	3342	18,342	170 i	403	468	1,054	16,246
Semiconductors and other electronic components	3344	32,142	167 i	654	1,238	1,510	28,573
Navigational, measuring, electromedical, and control instruments	3345	15,963	369 i	1,138	1,163	1,077	12,216
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	3,917	81 i	327	327	581	2,602
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	7,861	8 i	132 i	235	62	7,423
Other measuring and controlling devices	other 3345	4,186	280 i	679	602	434	2,191

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Other computer and electronic products	other 334	7,444	95 i	298	509	506	6,036
Electrical equipment, appliances, and components	335	4,365	269 i	774	1,355 i	496	1,470
Transportation equipment	336	46,746	250 i	1,115	1,817	1,710	41,854
Automobiles, bodies, trailers, and parts	3361–63	18,404	129 i	651	1,080	1,187	15,357
Aerospace products and parts	3364	26,181 i	58 i	312	521	442	24,847 i
Aircraft, aircraft engines, and aircraft parts	336411–13	24,892 i	D	D	407	D	D
Guided missiles, space vehicles, and related parts	336414–15, 336419	1,290 i	D	D	114	D	D
Military armored vehicles, tanks, and tank components	336992	18	2 i	16	0	0	0
Other transportation	other 336	2,142 i	61 i	135	216	81	1,649 i
Furniture and related products	337	373	105 i	90	178	0	0
Miscellaneous manufacturing	339	12,789	D	D	D	D	D
Medical equipment and supplies	3391	10,309	191 i	1,056	1,459	676	6,926
Other miscellaneous manufacturing	3399	2,481	D	D	D	D	D
Nonmanufacturing industries	21–23, 42–81	107,913	4,770 i	13,029	12,351	5,823	71,940
Mining, extraction, and support activities	21	4,703	D	301	D	D	4,116
Utilities	22	310	25 i	47	98	140	0
Wholesale trade	42	339 i	244 i	95	0	0	0
Electronic shopping and electronic auctions	454111–12	1,388	D	5	0	0	D
Transportation and warehousing	48–49	679	D	62 i	0	0	D
Information	51	63,773	894 i	4,177	4,852	3,090	50,760
Publishing	511	36,140	464 i	2,024 i	1,455	1,335	30,862
Newspaper, periodical, book, and directory publishers	5111	88 i	21 i	20 i	47 i	0	0
Software publishers	5112	36,052	443 i	2,004 i	1,408	1,335	30,862
Telecommunications	517	3,755	68 i	275 i	290	569 i	2,552
Data processing, hosting, and related services	518	9,029	284 i	1,615	2,743	984	3,403
Other information	other 51	14,849	78 i	263	364	201	13,942
Finance and insurance	52	4,122	55 i	96	258	335	3,378
Real estate and rental and leasing	53	262	17 i	8	49	189	0
Lessors of nonfinancial intangible assets (except copyrighted works)	533	55	3 i	3	49	0	0
Other real estate and rental and leasing	other 53	207	14 i	5	0	189	0
Professional, scientific, and technical services	54	30,975 i	3,127 i	7,796	6,601 i	1,693	11,757 i
Architectural, engineering, and related services	5413	3,375	351 i	1,071 i	781	420	751
Computer systems design and related services	5415	11,019 i	1,818 i	2,855 i	2,754 i	495 i	3,097 i
Scientific R&D services	5417	12,807	485 i	3,153	1,979	562	6,627
Biotechnology R&D	541711	3,459	115 i	709	D	0	D

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Physical, engineering, and life sciences (except biotechnology) R&D	541712	8,670	359 i	2,415	1,615	562	3,718
Social sciences and humanities R&D	541720	678	11 i	29	D	0	D
Other professional, scientific, and technical services	other 54	3,775	473 i	717	1,087	215	1,282 i
Health care services	621–23	501 i	97 i	127	156	121 i	0
Other nonmanufacturing	23, 44–45 (excluding 454111–12), 55–56, 624, 71–72, 81	861 i	D	317	D	D	0
All companies (number of domestic employees)	–	340,728	9,448 i	26,406	31,985	18,818	254,071
Small companies ^a							
5–499	–	54,773	9,183 i	22,746	16,688	3,780	2,375
5–99	–	29,078 i	7,718 i	14,881	6,137	342 i	0
5–49	–	18,900 i	6,195 i	10,360	2,291 i	54	0
5–9	–	3,295 i	1,559 i	1,736	0	0	0
10–24	–	7,177 i	2,840 i	3,944	393 i	0	0
25–49	–	8,428 i	1,796 i	4,680	1,898 i	54	0
50–99	–	10,178 i	1,523 i	4,521	3,846	288 i	0
100–249	–	13,492	1,116 i	5,384	5,575	1,311	106
250–499	–	12,203	349 i	2,481	4,977	2,126	2,269
Medium and large companies							
500–999	–	13,262	138 i	1,565	4,608	3,229	3,722
1,000–4,999	–	57,551	75 i	1,696	7,675	7,580	40,524
5,000–9,999	–	38,202	4 i	193	1,699	2,512	33,795
10,000–24,999	–	54,445	44 i	120	855	1,252 i	52,175
25,000 or more	–	122,495	4 i	86	461	465	121,479

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