

TABLE 23. Domestic R&D paid for by the company and others and performed by the company, by industry and company size, by domestic R&D program size: 2013  
(Millions of U.S. dollars)

Industry and company size	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	322,528	10,067 i	25,844	31,446	16,318	238,853
Manufacturing industries	31–33	221,476	5,763 i	13,102	19,314	11,724	171,572
Food	311	5,028	288 i	620 i	538	625	2,957
Beverage and tobacco products	312	827	18 i	39	111	190 i	469
Textile, apparel, and leather products	313–16	662	133 i	180	223	127	0
Wood products	321	220	52 i	52	116	0	0
Paper	322	920	80 i	151 i	153	58	477
Printing and related support activities	323	252 i	89 i	124	39 i	0	0
Petroleum and coal products	324	242	82 i	D	47	D	0
Chemicals	325	61,664	507 i	2,270	4,995	3,179	50,712
Basic chemicals	3251	2,658	59 i	308	672	555	1,065
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	1,065	53 i	130	103	0	779
Pesticide, fertilizer, and other agricultural chemicals	3253	1,691 i	34 i	D	66	0	D
Pharmaceuticals and medicines	3254	52,426	124 i	1,481	3,757	2,205	44,858
Soap, cleaning compound, and toilet preparation	3256	2,469	107 i	92	187	229	1,854
Paint, coating, adhesive, and other chemicals	3255, 3259	1,355	130 i	D	211	190	D
Plastics and rubber products	326	3,650	423 i	636	499	236	1,857
Nonmetallic mineral products	327	1,329 i	97 i	145	158 i	93	837 i
Primary metals	331	624	124 i	162	176	0	162
Fabricated metal products	332	2,212 i	804 i	744	531	133 i	0
Machinery	333	12,650	883 i	1,399	1,981	1,117	7,271
Agricultural implement	33311	1,597	39 i	105	64	66	1,323
Semiconductor machinery	333295	3,194	41 i	40 i	310	241 i	2,563
Engine, turbine, and power transmission equipment	3336	1,448	24 i	107	103	182	1,033
Other machinery	other 333	6,411	779 i	1,146	1,505	628	2,353
Computer and electronic products	334	67,205	776 i	3,374	4,842	3,475	54,738
Communications equipment	3342	15,658	86 i	411	852	822	13,487
Semiconductor and other electronic components	3344	30,800	286 i	954	1,833	1,087	26,639
Navigational, measuring, electromedical, and control instruments	3345	14,478	276 i	1,406	1,339	803	10,654
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	2,634	53 i	568 i	564	336	1,114
Search, detection, navigation, guidance, aeronautical, and nautical system and instrument	334511	8,106	27 i	128	144	162	7,644
Other measuring and controlling device	other 3345	3,738	196 i	710	631	305	1,896
Other computer and electronic products	other 334	6,269	128 i	604	818	762	3,957
Electrical equipment, appliances, and components	335	4,136	290 i	721	739	370	2,017
Transportation equipment	336	45,972	336 i	945	2,095	1,360	41,236
Automobiles, bodies, trailers, and parts	3361, 3362, 3363	16,729	181 i	566	1,419	922	13,640

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Aerospace products and parts	3364	27,114	87 i	229	568	277	25,952
Aircraft, aircraft engine, and aircraft parts	336411–13	D	83 i	224	D	D	D
Guided missile, space vehicle, and related parts	336414–15, 336419	D	4	6	D	D	D
Military armored vehicle, tank, and tank components	336992	9 i	2 i	7 i	0	0	0
Other transportation	other 336	2,121	65 i	142	108	160	1,645
Furniture and related products	337	374	98 i	114	163	0	0
Miscellaneous manufacturing	339	13,509	686 i	D	1,908	D	8,839
Medical equipment and supplies	3391	10,954	248 i	900	1,510	590	7,706
Other miscellaneous manufacturing	3399	2,555	438 i	D	398	D	1,133
Nonmanufacturing industries	21–23, 42–81	101,052	4,304 i	12,742	12,132	4,593	67,281
Mining, extraction, and support activities	21	3,997	23 i	123	D	0	D
Utilities	22	294	7 i	61	226	0	0
Wholesale trade	42	529 i	308 i	221 i	0	0	0
Electronic shopping and electronic auctions	454111–12	1,357 i	69 i	23	34 i	0	1,230
Transportation and warehousing	48–49	D	24 i	34	83	0	D
Information	51	57,207	878 i	3,097	4,425	2,191	46,617
Publishing	511	35,675	483 i	1,654	1,907	1,043	30,589
Newspaper, periodical, book, and directory publishers	5111	342 i	53 i	47 i	242 i	0	0
Software publishers	5112	35,333	430 i	1,607	1,664	1,043	30,589
Telecommunications	517	3,041	50 i	143	426	119	2,304
Data processing, hosting, and related services	518	6,446	254 i	1,091	1,494	748	2,858
Other information	other 51	12,046	92 i	208	599	281	10,866
Finance and insurance	52	4,308	20 i	284 i	294	341	3,370
Real estate and rental and leasing	53	150	12 i	11	126	0	0
Lessors of nonfinancial intangible assets (except copyrighted works)	533	58 i	3 i	D	D	0	0
Other real estate and rental and leasing	other 53	92	9 i	D	D	0	0
Professional, scientific, and technical services	54	31,017	2,543 i	8,317	6,388	1,841	11,927
Architectural, engineering, and related services	5413	3,133	316 i	961	819 i	366	671
Computer systems design and related services	5415	9,268 i	1,106 i	2,522 i	2,882 i	507 i	2,251 i
Scientific research and development services	5417	14,201	544 i	3,742	2,127	674 i	7,114
Biotechnology research and development	541711	4,499	153 i	1,193	D	0	D
Physical, engineering, and life sciences (except biotechnology) research and development	541712	8,910	376 i	2,399	1,584	674 i	3,877
Social sciences and humanities research and development	541720	792	15 i	150	D	0	D
Other professional, scientific, and technical services	other 54	4,415	578 i	1,092	561	293	1,890
Health care services	621–23	526 i	79 i	154	146 i	147	0

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Other nonmanufacturing	23, 44–45 (excluding 454111–12), 55–56, 624, 71–72, 81	D	339 i	418	D	74 i	0
All companies (number of domestic employees)	–	322,528	10,067 i	25,844	31,446	16,318	238,853
Small companies <sup>a</sup>							
5–499	–	53,002	9,861 i	21,825	16,086	2,937	2,294
5–99	–	27,148 i	8,305 i	14,046	4,797	0	0
5–49	–	18,238 i	6,570 i	9,708	1,961 i	0	0
5–9	–	3,402 i	1,927 i	1,449	26	0	0
10–24	–	6,895 i	2,500 i	3,816	579 i	0	0
25–49	–	7,941 i	2,143 i	4,442	1,356	0	0
50–99	–	8,910	1,735 i	4,339	2,836	0	0
100–249	–	13,666	D	5,199	5,937	1,048	D
250–499	–	12,189	D	2,579	5,352	1,889	D
Medium and large companies							
500–999	–	12,002	109 i	1,855	4,166	3,156	2,715
1,000–4,999	–	55,517	75 i	1,717	8,167	6,372	39,185
5,000–9,999	–	31,514	9 i	226	1,557	2,202	27,520
10,000–24,999	–	51,218	12 i	153	862	1,238	48,952
25,000 or more	–	119,275	1 i	69	607	412	118,187

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> 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.