

TABLE 15. Domestic R&D paid for by the company and others and performed by the company, by industry size, company size, and domestic R&D program size: 2012  
(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	302,250	9,807 i	24,974	28,247	15,694	223,528
Manufacturing industries	31–33	208,415	4,692 i	11,205	15,576	11,220	165,721
Food	311	4,092	262 i	363	665	385	2,417
Beverage and tobacco products	312	D	7 i	46	97	D	D
Textile, apparel, and leather products	313–16	560	100 i	242	217	0	0
Wood products	321	461 i	D	88 i	124	0	D
Paper	322	752	63 i	108	126	0	455
Printing and related support activities	323	256 i	60 i	142 i	53	0	0
Petroleum and coal products	324	894	D	63	15	D	D
Chemicals	325	57,225	426 i	1,789	3,059	2,849	49,103
Basic chemicals	3251	2,916	75 i	315	688	457	1,380
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	946	D	117	157	D	533
Pesticide, fertilizer, and other agricultural chemical	3253	D	17 i	84 i	D	D	D
Pharmaceuticals and medicines	3254	48,146	111 i	984	1,852	1,674	43,525
Soap, cleaning compound, and toilet preparation	3256	2,342	64 i	101	109	312	1,755
Paint, coating, adhesive, and other chemicals	3255, 3259	D	D	188	D	D	D
Plastics and rubber products	326	3,509	373 i	603	688	95	1,749
Nonmetallic mineral products	327	1,327 i	86 i	138	127	166	810 i
Primary metals	331	741	91 i	194 i	304	0	152
Fabricated metal products	332	1,833 i	602 i	768	331	132	0
Machinery	333	14,254	612 i	1,360	1,588	953	9,742
Agricultural implement	33311	1,546	20 i	109	0	154	1,263
Semiconductor machinery	333295	2,151	9 i	73	292	100	1,678
Engine, turbine, and power transmission equipment	3336	4,336	25 i	119	72	194	3,926
Other machinery	other 333	6,220	558 i	1,059	1,224	504	2,875
Computer and electronic products	334	65,068	759 i	2,249	3,845	3,495	54,721
Communications equipment	3342	13,989	64 i	423	620	679	12,203
Semiconductor and other electronic components	3344	27,331	180 i	573	1,507	1,103	23,968
Navigational, measuring, electromedical, and control instruments	3345	15,949	291 i	966	931	1,039	12,721
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	4,396	47 i	196	152	356	3,645
Search, detection, navigation, guidance, aeronautical, and nautical system and instrument	334511	7,737	24 i	150	199	146	7,217
Other measuring and controlling device	other 3345	3,816	220 i	621	580	537	1,859
Other computer and electronic products	other 334	7,799	223 i	287	786	674	5,829
Electrical equipment, appliances, and components	335	3,087	281 i	606	1,001	258	942
Transportation equipment	336	42,305	270 i	865	1,538	1,698	37,934
Automobiles, bodies, trailers, and parts	3361–63	D	D	D	D	1,257	D
Aerospace products and parts	3364	24,817 i	100	D	335	D	23,846 i
Aircraft, aircraft engine, and aircraft parts	336411–13	23,397 i	99	158	241	276	22,623 i

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Guided missile, space vehicle, and related parts	336414–15, 336419	1,420	1 i	D	94	D	1,223
Military armored vehicle, tank, and tank component	336992	D	3 i	D	0	0	0
Other transportation	other 336	D	D	D	D	D	D
Furniture and related products	337	348	95 i	99	154	0	0
Miscellaneous manufacturing	339	D	D	1,481	1,645	D	6,351
Medical equipment and supplies	3391	8,316	235 i	1,066	1,197	550	5,269
Other miscellaneous manufacturing	3399	D	D	415	448	D	1,083
Nonmanufacturing industries	21–23, 42–81	93,835	5,116 i	13,768 i	12,671	4,474	57,807
Mining, extraction, and support activities	21	2,815	34 i	225	76	0	2,481
Utilities	22	348	D	63	205	D	0
Wholesale trade	42	1,825 i	574 i	948 i	303 i	0	0
Electronic shopping and electronic auctions	454111–12	1,353	D	150 i	76	0	D
Transportation and warehousing	48–49	178	61 i	D	D	D	0
Information	51	46,805	929 i	2,941	3,409	1,580	37,947
Publishing	511	28,987	432 i	1,525	2,138	654	24,238
Newspaper, periodical, book, and directory publishers	5111	242 i	38 i	88 i	116 i	0	0
Software publishers	5112	28,745	394 i	1,438	2,022	654	24,238
Telecommunications	517	2,824 i	64 i	162	262	233	2,101 i
Data processing, hosting, and related services	518	4,913	351 i	760	664	556	2,582
Other information	other 51	10,082	82 i	493 i	344	137	9,026
Finance and insurance	52	3,519	92 i	187	314	339	2,588
Real estate and rental and leasing	53	363	20 i	D	37	0	D
Lessors of nonfinancial intangible assets (except copyrighted works)	533	342	D	D	37	0	D
Other real estate and rental and leasing	other 53	21 i	D	D	0	0	0
Professional, scientific, and technical services	54	34,309	2,825 i	8,696 i	7,561	2,325	12,902
Architectural, engineering, and related services	5413	2,513 i	371 i	844 i	722	418	158
Computer systems design and related services	5415	11,251 i	1,400 i	2,888 i	2,372	581	4,009 i
Scientific research and development services	5417	16,544	586 i	3,802	3,764	1,066	7,326
Biotechnology research and development	541711	7,387	D	1,437	1,787	815	D
Physical, engineering, and life sciences (except biotechnology) research and development	541712	8,559	398 i	2,313 i	1,977	251	3,619
Social sciences and humanities research and development	541720	598	D	51	0	0	D
Other professional, scientific, and technical services	other 54	4,001	468 i	1,162 i	703	261	1,408
Health care services	621–23	675 i	250 i	122	190	114	0
Other nonmanufacturing	23, 44–45 (excluding 454111–12), 55–56, 624, 71–72, 81	1,646	D	D	D	0	517
All companies (number of domestic employees)	–	302,250	9,807 i	24,974	28,247	15,694	223,528
Small companies <sup>a</sup>	–	–	–	–	–	–	–
5–499	–	49,961	9,568 i	21,168	14,346	3,417	1,462

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5–99	–	26,217 i	8,228 i	13,635 i	4,079	275	0
5–49	–	17,035 i	6,758 i	8,882 i	1,396	0	0
5–9	–	2,926 i	2,062 i	805 i	59 i	0	0
10–24	–	6,915 i	2,822 i	3,805 i	288 i	0	0
25–49	–	7,195 i	1,874 i	4,271	1,049	0	0
50–99	–	9,182 i	1,471 i	4,753 i	2,683	275	0
100–249	–	12,480	1,017 i	4,816	5,067	1,395	185
250–499	–	11,264	323 i	2,717	5,200	1,747	1,277
Medium and large companies							
500–999	–	11,484	151 i	1,686	3,960	2,776	2,910
1,000–4,999	–	50,691	79 i	1,751	6,893	5,887	36,082
5,000–9,999	–	30,483	4 i	167	1,600	2,126	26,586
10,000–24,999	–	49,493	5 i	128	903	919	47,538
25,000 or more	–	110,138	0	75	544	570	108,949

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> The 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. The industry classification based on 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.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, and U.S. Census Bureau, Business R&D and Innovation Survey, 2012.