

TABLE 22. Domestic R&D paid for and performed by the company, by industry and company size, by domestic R&D program size: 2012

(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	247,280	8,380 i	20,428	23,162	14,221	181,088
Manufacturing industries	31–33	170,197	4,382 i	10,127	14,128	10,354	131,205
Food	311	3,921	258 i	341	615	384	2,323
Beverage and tobacco products	312	688	D	D	94	D	D
Textile, apparel, and leather products	313–16	537	96 i	224	217	0	0
Wood products	321	453 i	D	84 i	119	0	D
Paper	322	743	62 i	102	124	0	455
Printing and related support activities	323	253 i	58 i	142 i	53	0	0
Petroleum and coal products	324	880	D	D	15	D	D
Chemicals	325	50,867	381 i	1,659	2,765	2,610	43,452
Basic chemicals	3251	2,536	73 i	302	575	457	1,128
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	844	37 i	113	156	11	527
Pesticide, fertilizer, and other agricultural chemical	3253	1,328	17 i	83 i	D	D	D
Pharmaceuticals and medicines	3254	42,594	D	882	1,688	D	38,409
Soap, cleaning compound, and toilet preparation	3256	2,339	61 i	101	109	312	1,755
Paint, coating, adhesive, and other chemicals	3255, 3259	1,227	D	178	D	D	D
Plastics and rubber products	326	3,171	351 i	565	665	95	1,495
Nonmetallic mineral products	327	1,293 i	83 i	132	105	166	808 i
Primary metals	331	686	86 i	188 i	265	0	147
Fabricated metal products	332	1,720 i	523 i	735	331	131	0
Machinery	333	13,294	563 i	1,241	1,441	900	9,148
Agricultural implement	33311	1,503	18 i	100	0	154	1,230
Semiconductor machinery	333295	2,078	9 i	64	231	96	1,678
Engine, turbine, and power transmission equipment	3336	3,757	25 i	104	66	193	3,368
Other machinery	other 333	5,956	511 i	973	1,144	456	2,872
Computer and electronic products	334	56,677	700 i	1,848	3,441	3,307	47,381
Communications equipment	3342	12,549	63 i	370	522	676	10,917
Semiconductor and other electronic components	3344	25,957	162 i	488	1,347	1,047	22,913
Navigational, measuring, electromedical, and control instruments	3345	10,603	266 i	717	864	948	7,808
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	4,166	D	176	150	D	3,485
Search, detection, navigation, guidance, aeronautical, and nautical system and instrument	334511	2,810	24 i	D	136	D	2,483
Other measuring and controlling device	other 3345	3,628	D	D	578	D	1,840
Other computer and electronic products	other 334	7,568	208 i	273	707	637	5,744
Electrical equipment, appliances, and components	335	2,900	D	552	951	D	937
Transportation equipment	336	21,344	264 i	745	1,257	1,498	17,580
Automobiles, bodies, trailers, and parts	3361–63	13,191	D	463	863	1,130	D
Aerospace products and parts	3364	7,140	98	D	248	D	6,365
Aircraft, aircraft engine, and aircraft parts	336411–13	6,695	97	D	D	D	6,045
Guided missile, space vehicle, and related parts	336414–15, 336419	445 i	1 i	D	D	D	320 i
Military armored vehicle, tank, and tank component	336992	21	2 i	19	0	0	0
Other transportation	other 336	992	D	D	146	D	D

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Furniture and related products	337	348	95 i	99	154	0	0
Miscellaneous manufacturing	339	10,423	D	D	1,518	D	6,133
Medical equipment and supplies	3391	7,885	228 i	977	1,101	529	5,051
Other miscellaneous manufacturing	3399	2,538	D	D	417	D	1,083
Nonmanufacturing industries	21–23, 42–81	77,083	3,997 i	10,301 i	9,034	3,867	49,883
Mining, extraction, and support activities	21	2,443	32 i	225	76	0	2,110
Utilities	22	245	D	58	119	D	0
Wholesale trade	42	1,580 i	525 i	857 i	198 i	0	0
Electronic shopping and electronic auctions	454111–12	1,346	D	146 i	76	0	D
Transportation and warehousing	48–49	177	60 i	D	D	D	0
Information	51	45,851	845 i	2,847	3,291	1,545	37,323
Publishing	511	28,253	399 i	1,477	2,072	654	23,651
Newspaper, periodical, book, and directory publishers	5111	241 i	37 i	88 i	116 i	0	0
Software publishers	5112	28,012	362 i	1,389	1,956	654	23,651
Telecommunications	517	2,768 i	63 i	161	242	200	2,101 i
Data processing, hosting, and related services	518	4,801	325 i	726	648	556	2,545
Other information	other 51	10,030	57 i	484 i	329	135	9,026
Finance and insurance	52	3,507	92 i	174	314	339	2,588
Real estate and rental and leasing	53	359	20 i	D	33	0	D
Lessors of nonfinancial intangible assets (except copyrighted works)	533	338	D	D	33	0	D
Other real estate and rental and leasing	other 53	21 i	D	D	0	0	0
Professional, scientific, and technical services	54	20,166	2,063 i	5,489 i	4,368	1,754	6,490
Architectural, engineering, and related services	5413	1,123	200 i	346	318	260	0
Computer systems design and related services	5415	9,163 i	1,230 i	2,305 i	1,555	581	3,492 i
Scientific research and development services	5417	6,788	313 i	1,879	2,006	768	1,822
Biotechnology research and development	541711	4,370	D	D	1,240	685	1,325
Physical, engineering, and life sciences (except biotechnology) research and development	541712	2,398	199 i	852	766	84	497
Social sciences and humanities research and development	541720	20 i	D	D	0	0	0
Other professional, scientific, and technical services	other 54	3,092	321 i	959 i	490	145 i	1,177
Health care services	621–23	416	50 i	89	164	114	0
Other nonmanufacturing	23, 44–45 (excluding 454111–12), 55–56, 624, 71–72, 81	992 i	D	D	D	0	1
All companies (number of domestic employees)	–	247,280	8,380 i	20,428	23,162	14,221	181,088
Small companies ^a							
5–499	–	39,388	8,150 i	16,884	10,452	2,811	1,092
5–99	–	19,958 i	6,868 i	9,995	2,820	275	0
5–49	–	12,670 i	5,482 i	6,103	1,085 i	0	0
5–9	–	1,966 i	1,365 i	543 i	59 i	0	0
10–24	–	4,985 i	2,420 i	2,350	215 i	0	0

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25–49	–	5,718 i	1,698 i	3,210	811	0	0
50–99	–	7,288 i	1,386 i	3,892 i	1,735	275	0
100–249	–	9,899	976 i	4,396	3,152	1,190	185
250–499	–	9,531	305 i	2,493	4,481	1,345	907
Medium and large companies							
500–999	–	10,227	145 i	1,598	3,532	2,468	2,484
1,000–4,999	–	43,025	76 i	1,602	6,477	5,516	29,354
5,000–9,999	–	23,821	3 i	160	1,495	2,012	20,151
10,000–24,999	–	43,119	4 i	111	721	846	41,437
25,000 or more	–	87,698	0	74	485	570	86,570

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.

^a 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 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.

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