

TABLE 31. Domestic R&D paid for and performed by the company, by industry, company size, and 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	264,913	8,586 i	21,158	26,137	14,554	194,478
Manufacturing industries	31–33	181,170	5,150 i	11,808	16,911	10,855	136,446
Food	311	4,801	270 i	604 i	441	625	2,861
Beverage and tobacco products	312	727	18 i	37	107	96	469
Textile, apparel, and leather products	313–16	642	121 i	171	223	127	0
Wood products	321	209	49 i	49	111	0	0
Paper	322	907	74 i	147 i	152	58	477
Printing and related support activities	323	224 i	62 i	122	39 i	0	0
Petroleum and coal products	324	236	81 i	D	47	D	0
Chemicals	325	54,285	484 i	2,046	4,414	2,993	44,348
Basic chemicals	3251	2,341	57 i	301	574	546	863
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	954	51 i	128	102	0	672
Pesticide, fertilizer, and other agricultural chemicals	3253	1,325 i	33 i	35	63	0	1,194 i
Pharmaceuticals and medicines	3254	45,891	115 i	1,276	3,285	2,041	39,174
Soap, cleaning compound, and toilet preparation	3256	2,458	101 i	90	186	228	1,854
Paint, coating, adhesive, and other chemicals	3255, 3259	1,315	126 i	216	204	178 i	590
Plastics and rubber products	326	3,496	355 i	585	467	236	1,853
Nonmetallic mineral products	327	1,303 i	90 i	144	141	93	836 i
Primary metals	331	605	119 i	158	173	0	156
Fabricated metal products	332	1,934 i	679 i	622	530	103 i	0
Machinery	333	12,092	834 i	1,296	1,761	1,061	7,141
Agricultural implement	33311	1,561	39 i	100	63	66	1,293
Semiconductor machinery	333295	3,097	36 i	35 i	244	232 i	2,550
Engine, turbine, and power transmission equipment	3336	1,336	23 i	91	82	139	1,001
Other machinery	other 333	6,098	736 i	1,069	1,372	624	2,297
Computer and electronic products	334	57,364	648 i	2,921	3,916	3,118	46,760
Communications equipment	3342	13,693	75 i	380	623	821	11,794
Semiconductor and other electronic components	3344	28,576	206 i	631	1,439	936	25,364
Navigational, measuring, electromedical, and control instruments	3345	9,001	246 i	1,315	1,153	626	5,662
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	2,470	42 i	559 i	466	300	1,104
Search, detection, navigation, guidance, aeronautical, and nautical system and instrument	334511	3,037	25 i	98	95	23	2,796
Other measuring and controlling device	other 3345	3,494	178 i	658	592	303	1,763
Other computer and electronic products	other 334	6,093	122 i	596	701	735	3,940

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Electrical equipment, appliances, and components	335	3,660	262 i	647	613	365	1,773
Transportation equipment	336	25,165	264 i	819	1,783	1,240	21,058
Automobiles, bodies, trailers, and parts	3361, 3362, 3363	14,081	129 i	475	1,144	844	11,490
Aerospace products and parts	3364	10,042	74 i	199	537	236	8,996
Aircraft, aircraft engine, and aircraft parts	336411–13	9,765	72 i	199	D	D	D
Guided missile, space vehicle, and related parts	336414–15, 336419	278	2 i	*	D	D	D
Military armored vehicle, tank, and tank components	336992	7 i	2 i	6	0	0	0
Other transportation	other 336	1,035	60 i	140	103	160	572
Furniture and related products	337	374	97 i	114	163	0	0
Miscellaneous manufacturing	339	13,147	642 i	D	1,830	D	8,714
Medical equipment and supplies	3391	10,638	228 i	816	1,440	573	7,581
Other miscellaneous manufacturing	3399	2,509	414 i	D	391	D	1,133
Nonmanufacturing industries	21–23, 42–81	83,742	3,436 i	9,350	9,226	3,699	58,032
Mining, extraction, and support activities	21	3,602	23 i	113	69	0	3,398
Utilities	22	243	6 i	50	187	0	0
Wholesale trade	42	510 i	299 i	211 i	0	0	0
Electronic shopping and electronic auctions	454111–12	1,356 i	69 i	22	34 i	0	1,230
Transportation and warehousing	48–49	411	24 i	34	83	0	271
Information	51	56,039	823 i	2,779	4,337	2,191	45,909
Publishing	511	34,637	450 i	1,383	1,847	1,043	29,914
Newspaper, periodical, book, and directory publishers	5111	341 i	52 i	47 i	242 i	0	0
Software publishers	5112	34,296	398 i	1,336	1,605	1,043	29,914
Telecommunications	517	3,037	48 i	141	426	119	2,304
Data processing, hosting, and related services	518	6,333	234 i	1,048	1,477	748	2,826
Other information	other 51	12,032	91 i	207	587	281	10,866
Finance and insurance	52	4,298	20 i	273 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	15,617 i	1,776 i	5,376	3,664	947 i	3,854
Architectural, engineering, and related services	5413	1,261	209 i	522	358	171	1
Computer systems design and related services	5415	8,107 i	918 i	2,090 i	2,393 i	507 i	2,200 i
Scientific research and development services	5417	2,838	275 i	1,876	569	111 i	7
Biotechnology research and development	541711	1,331	73 i	900	356	0	1
Physical, engineering, and life sciences (except biotechnology) research and development	541712	1,470	193 i	955	205	111 i	6

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Social sciences and humanities research and development	541720	36 i	8 i	21 i	7	0	0
Other professional, scientific, and technical services	other 54	3,411	375 i	888	344	158 i	1,647
Health care services	621–23	430 i	51 i	86	146 i	147	0
Other nonmanufacturing	23, 44–45 (excluding 454111–12), 55–56, 624, 71–72, 81	1,086 i	331 i	394	286 i	74 i	0
All companies (number of domestic employees)	–	264,913	8,586 i	21,158	26,137	14,554	194,478
Small companies ^a							
5–499	–	42,106	8,388 i	17,350	12,086	2,336	1,946
5–99	–	20,886 i	6,951 i	10,265	3,670	0	0
5–49	–	13,726 i	5,402 i	6,688	1,636 i	0	0
5–9	–	2,195 i	1,466 i	703 i	26	0	0
10–24	–	5,290 i	1,975 i	2,756	559 i	0	0
25–49	–	6,241 i	1,961 i	3,229	1,051	0	0
50–99	–	7,161	1,549 i	3,577	2,034	0	0
100–249	–	10,922	1,046 i	4,722	3,935	903	316
250–499	–	10,297	391 i	2,363	4,481	1,433	1,630
Medium and large companies							
500–999	–	10,280	105 i	1,730	3,609	2,609	2,227
1,000–4,999	–	45,342	72 i	1,643	7,585	6,023	30,019
5,000–9,999	–	25,009	9 i	221	1,530	1,939	21,310
10,000–24,999	–	44,275	12 i	145	771	1,234	42,112
25,000 or more	–	97,901	1 i	68	556	412	96,864

* = amount < \$500,000; 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 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.