

TABLE 18. Domestic R&D paid for and performed by the company, by industry and company size: 2014
(Millions of U.S. dollars)

Industry	NAICS codes	Company size (domestic employees)											
		All companies	5-9 ^a	10-24	25-49	50-99	100-249	250-499	500-999	1,000-4,999	5,000-9,999	10,000-24,999	25,000 or more
All industries	21-23, 31-33, 42-81	282,570	2,426 i	5,506 i	6,237 i	7,526	11,006	10,188	11,736	47,807	30,680	46,904	102,555
Manufacturing industries	31-33	192,160	1,094 i	2,384 i	2,742	4,932	6,497	6,057	8,433	34,708	20,538	41,316	63,460
Food	311	5,071 i	490	14 i	67 i	46 i	187 i	138	129	452	403	1,254	1,890 i
Beverages and tobacco products	312	819	4 i	1 i	1 i	1 i	13	18	11	45	148	34	545
Textiles, apparel, and leather products	313-16	616	7 i	17 i	15 i	20 i	57 i	38	27	170	238	25	0
Wood products	321	351 i	1 i	2 i	2 i	35 i	7 i	15 i	42 i	97 i	88 i	63 i	0
Paper	322	711	* i	6 i	6 i	12 i	49 i	23	29	58	38	473	15
Printing and related support activities	323	232	* i	6 i	D	9 i	52 i	37	19	85	5	D	0
Petroleum and coal products	324	229	5 i	D	8	38	9	32	49	26	0	D	0
Chemicals	325	56,488	138	676	1,099	1,659	2,108	1,923	1,318	10,394	6,103	16,035	15,035
Basic chemicals	3251	2,554	3 i	38 i	74	83 i	217	67	115	720	188	691	360
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	1,136	D	D	37	D	54	53	49	310	0	D	317
Pesticides, fertilizers, and other agricultural chemicals	3253	1,327 i	* i	D	D	D	30	D	3 i	219 i	D	D	0
Pharmaceuticals and medicines	3254	47,646	122	533	886	1,431	1,667	1,683	1,110	8,289	5,158	13,658	13,109
Soaps, cleaning compounds, and toilet preparations	3256	2,531	* i	37	48 i	33 i	82 i	D	36	293	502 i	D	1,194
Paints, coatings, adhesives, and other chemicals	3255, 3259	1,294 i	D	D	D	D	59	D	5	563 i	D	D	55
Plastics and rubber products	326	3,416	30 i	88 i	69 i	123 i	169 i	217	216	641	460	1,402	0
Nonmetallic mineral products	327	1,420 i	3 i	47 i	15 i	22 i	29	24	112	91	55	1,024 i	0
Primary metals	331	615	* i	1	15 i	24 i	41 i	34	93	154	40	25	190
Fabricated metal products	332	2,000	23 i	114 i	71 i	190 i	339 i	286	205	382	326 i	64	0
Machinery	333	11,458	D	208 i	313 i	452 i	721	523	605	2,736	1,786	1,340	D
Agricultural implements	33311	1,539	D	19	D	20	32	31	28	225	14	D	D
Semiconductor machinery	333295	2,821	D	D	D	63 i	88	D	176	1,215 i	D	0	0
Engines, turbines, and power transmission equipment	3336	2,285	D	D	D	59	D	D	15	82	223	D	D
Other machinery	other 333	4,813	D	D	D	311 i	D	D	386	1,213	D	D	0
Computer and electronic products	334	64,695	165 i	384 i	584 i	1,012	1,520	1,780	4,127	12,883	7,513	9,998	24,730
Communications equipment	3342	16,808	22 i	79 i	98 i	153	262	317 i	1,408	2,045 i	715 i	1,358	10,350
Semiconductors and other electronic components	3344	30,029	65 i	55 i	154	289	658	893	1,247	7,197	4,023	6,718	8,732
Navigational, measuring, electromedical, and control instruments	3345	10,576	71 i	185 i	267 i	443 i	417	368	696	2,231	951	1,900	3,047
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	3,697	29 i	96 i	67	111	176	156 i	197	1,048	168	924	726

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Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	2,984	3 i	11 i	31 i	19 i	29	67	9	437	170	285	1,924
Other measuring and controlling devices	other 3345	3,895	39 i	77 i	169 i	313 i	212	145	491	747	613	692	397
Other computer and electronic products	other 334	7,282	7 i	64 i	65	128	184	202	775	1,410	1,824	22	2,601
Electrical equipment, appliances, and components	335	4,178	14 i	178	140 i	626 i	299	171	331	743	423	905	350
Transportation equipment	336	27,261	26 i	252	82 i	204	325	349	530	2,228	2,087	4,382	16,795
Automobiles, bodies, trailers, and parts	3361-63	15,900	12 i	5 i	34	99	210 i	222	395	1,542	1,325	2,265	9,790
Aerospace products and parts	3364	10,300	2 i	242	17 i	42 i	68	39	111	528	467	2,106	6,679
Aircraft, aircraft engines, and aircraft parts	336411-13	10,011	2 i	242	D	40 i	66	39	D	389	D	D	6,679
Guided missiles, space vehicles, and related parts	336414-15, 336419	289	* i	* i	D	1	3	0	D	138	D	D	0
Military armored vehicles, tanks, and tank components	336992	10	* i	2	0	*	2	0	0	5	0	0	0
Other transportation	other 336	1,051	11 i	3 i	31 i	63	44	88	25	154	296	11	326 i
Furniture and related products	337	369	12 i	24 i	18 i	8 i	29 i	34	9 i	131	104	0	0
Miscellaneous manufacturing	339	12,230	D	D	D	452	543 i	416	580	3,392	722 i	4,221	D
Medical equipment and supplies	3391	9,809	43 i	288	199 i	353	362	285	422	2,345	435 i	4,221	855
Other miscellaneous manufacturing	3399	2,421	D	D	D	99 i	182 i	131	158	1,046	287 i	0	D
Nonmanufacturing industries	21-23, 42-81	90,409	1,333 i	3,122 i	3,495 i	2,594	4,509	4,130	3,304	13,099	10,142	5,588	39,094
Mining, extraction, and support activities	21	3,821	11 i	1 i	1 i	D	112	42	84	106	D	1,573	1,739
Utilities	22	258	17 i	* i	4	0	* i	2	3	135	8	50	39
Wholesale trade	42	329 i	26 i	53 i	56 i	58 i	85 i	25 i	14 i	9	0	2 i	0
Electronic shopping and electronic auctions	454111-12	1,388	8 i	D	1 i	D	D	D	0	D	0	D	D
Transportation and warehousing	48-49	675	0	* i	2 i	0	30 i	242	23	9	19 i	0	351
Information	51	62,296	281 i	740 i	1,346 i	948	2,375	2,494	1,875	9,250	8,933	1,538	32,516
Publishing	511	34,869	134 i	448 i	732 i	430	922	921	747	4,939	4,964	3 i	20,628
Newspaper, periodical, book, and directory publishers	5111	88 i	2 i	9 i	3 i	3 i	42 i	2 i	24 i	0	0	3 i	0
Software publishers	5112	34,781	132 i	439 i	730 i	427	880	919	723	4,939	4,964	0	20,628
Telecommunications	517	3,710	15 i	85 i	99 i	30	68	115 i	153	66 i	0	330 i	2,750
Data processing, hosting, and related services	518	8,926	D	D	459 i	444	1,178	1,203	844	2,903	D	1,204	D
Other information	other 51	14,791	D	D	56 i	44	207	254	131	1,341	D	* i	D
Finance and insurance	52	4,090	10 i	42 i	* i	18 i	66	75	353	231	134	795	2,365
Real estate and rental and leasing	53	262	* i	3	2 i	9 i	58	3 i	0	189	0	0	0
Lessors of nonfinancial intangible assets (except copyrighted works)	533	55	0	3	1 i	1 i	49	0	0	0	0	0	0

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Other real estate and rental and leasing	other 53	207	* i	0	* i	7 i	8 i	3 i	0	189	0	0	0
Professional, scientific, and technical services	54	16,061 i	913 i	2,210 i	2,015 i	1,488 i	1,549 i	1,111	712 i	2,999	897 i	803 i	1,364 i
Architectural, engineering, and related services	5413	1,503 i	34 i	148 i	302 i	99 i	166 i	173 i	80	288	162	51	*
Computer systems design and related services	5415	8,644 i	286 i	934 i	1,120 i	879 i	712 i	483	435 i	2,389 i	685 i	710 i	11
Scientific R&D services	5417	2,668	476 i	913	493	350	305	84	16	0	7	8 i	16 i
Biotechnology R&D	541711	692	D	258 i	D	114	D	11 i	0	0	0	0	16 i
Physical, engineering, and life sciences (except biotechnology) R&D	541712	1,950	386 i	651	351	231	227 i	73	16	0	7	8 i	0
Social sciences and humanities R&D	541720	26	D	4 i	D	5	D	0	0	0	0	0	0
Other professional, scientific, and technical services	other 54	3,245 i	117 i	215 i	100 i	160 i	366 i	371	181	321	43	35	1,336 i
Health care services	621-23	439 i	27 i	3 i	19	19 i	174 i	79	107	1 i	0	* i	9
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	791 i	38 i	D	50 i	D	D	D	133	D	D	D	D

* = 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 = 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.

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