

TABLE 10. Domestic R&D paid for by the company and others 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	340,728	3,295 i	7,177 i	8,428 i	10,178 i	13,492	12,203	13,262	57,551	38,202	54,445	122,495
Manufacturing industries	31–33	232,815	1,274 i	2,896 i	3,133	6,476 i	7,429	6,954	9,399	41,192	24,761	47,571	81,731
Food	311	5,292 i	494	14 i	67 i	49 i	251 i	149	137	576	404	1,254	1,896 i
Beverages and tobacco products	312	920	4 i	1 i	D	1 i	D	D	11	45	D	34	545
Textiles, apparel, and leather products	313–16	631	12 i	17 i	16 i	26 i	59 i	40	27	170	238	25	0
Wood products	321	362 i	1 i	2 i	2 i	35 i	7 i	15 i	48 i	97 i	88 i	68 i	0
Paper	322	723	* i	6 i	7 i	14 i	57 i	26	29	58	38	473	15
Printing and related support activities	323	234	* i	6 i	D	9 i	53 i	37	19	85	5	D	0
Petroleum and coal products	324	234	5 i	D	8	38	9	32	49	26	0	D	0
Chemicals	325	66,301	197 i	935	1,274	2,823	2,392	2,106	1,654	13,957	7,932	17,589	15,442
Basic chemicals	3251	2,849	3 i	63 i	97	101 i	276	69	158	D	192	D	364
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	1,152	D	D	41	30 i	54	54	49	310	0	D	317
Pesticides, fertilizers, and other agricultural chemicals	3253	1,790 i	* i	D	D	D	30	D	3 i	D	D	D	0
Pharmaceuticals and medicines	3254	56,612	172	740	1,032	2,565	1,886	1,864	1,400	11,337	6,963	15,140	13,513
Soaps, cleaning compounds, and toilet preparations	3256	2,547	* i	48	48 i	34 i	84 i	D	37	294	502 i	D	1,194
Paints, coatings, adhesives, and other chemicals	3255, 3259	1,350 i	D	D	D	D	63	D	5	566 i	D	D	55
Plastics and rubber products	326	3,574	31 i	91 i	98 i	138 i	187 i	225	251	690	460	1,403	0
Nonmetallic mineral products	327	1,445 i	3 i	47 i	19 i	22 i	35	28	115	96	55	1,026 i	0
Primary metals	331	677	* i	1	D	25 i	43 i	47 i	94	185	D	25	196
Fabricated metal products	332	2,131 i	25 i	118 i	87 i	216 i	355 i	294	207	400	364	64	0
Machinery	333	12,128	D	324 i	347 i	553 i	756	531	695	2,877	1,890	1,371	D
Agricultural implements	33311	1,578	D	19	D	20	33	31	28	230	14	D	D
Semiconductor machinery	333295	2,941	D	D	D	D	D	D	D	D	D	0	0
Engines, turbines, and power transmission equipment	3336	2,347	D	D	D	67	D	D	D	82	D	D	D
Other machinery	other 333	5,261	D	D	D	D	D	D	D	D	D	D	D
Computer and electronic products	334	73,891	246 i	488 i	652 i	1,137	1,861	2,119	4,418	14,104	8,887	11,462	28,517
Communications equipment	3342	18,342	27 i	80 i	98 i	158	377	414 i	1,421	2,419 i	715 i	2,283	10,350
Semiconductors and other electronic components	3344	32,142	72 i	114 i	174	339	719	1,124	1,356	7,756	5,009	6,723	8,756
Navigational, measuring, electromedical, and control instruments	3345	15,963	135 i	227 i	310 i	506 i	565	379	783	2,494	1,338	2,416	6,811
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	3,917	86 i	106 i	74	112	272	160 i	220	1,060	178	925	726

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Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	7,861	8 i	30 i	44 i	51 i	70	68	11	655	436	799	5,688
Other measuring and controlling devices	other 3345	4,186	40 i	91 i	191 i	344 i	223	151	552	779	725	692	397
Other computer and electronic products	other 334	7,444	12 i	67 i	70	133	200	202	858	1,436	1,824	40	2,601
Electrical equipment, appliances, and components	335	4,365	16 i	183	155 i	639 i	314	179	333	783	423	991	350
Transportation equipment	336	46,746	30 i	255	104 i	279	336	505	676	3,461	2,961	7,291	30,848
Automobiles, bodies, trailers, and parts	3361-63	18,404	12 i	5 i	39	148	220 i	362	503	2,687	1,506	2,504	10,419
Aerospace products and parts	3364	26,181 i	D	245	D	61	69	41	D	615	D	4,776	19,038 i
Aircraft, aircraft engines, and aircraft parts	336411-13	24,892 i	D	245	D	D	66	41	D	D	D	D	19,038 i
Guided missiles, space vehicles, and related parts	336414-15, 336419	1,290 i	D	* i	21 i	D	3	0	D	D	D	D	0
Military armored vehicles, tanks, and tank components	336992	18	*	3	0	7	2	0	0	6	0	0	0
Other transportation	other 336	2,142 i	D	3 i	D	63	45	102	D	154	D	11	1,390 i
Furniture and related products	337	373	12 i	26 i	19 i	10 i	29 i	34	9 i	131	104	0	0
Miscellaneous manufacturing	339	12,789	D	D	D	464	D	D	627	3,450	722 i	4,420	D
Medical equipment and supplies	3391	10,309	54 i	299	210 i	362	487 i	311	463	2,403	435 i	4,420	863
Other miscellaneous manufacturing	3399	2,481	D	D	D	102 i	D	D	164	1,047	287 i	0	D
Nonmanufacturing industries	21-23, 42-81	107,913	2,021 i	4,281 i	5,295 i	3,702	6,064	5,249	3,862	16,359	13,441	6,875	40,765
Mining, extraction, and support activities	21	4,703	D	1 i	1 i	D	D	D	D	111	D	2,037	D
Utilities	22	310	17 i	* i	6	0	* i	D	3	138	9	D	D
Wholesale trade	42	339 i	26 i	59 i	58 i	58 i	87 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	679	0	* i	2 i	0	30 i	242	26	9	19 i	0	351
Information	51	63,773	D	785 i	1,392 i	1,009	2,498	2,557	D	9,297	8,933	D	33,226
Publishing	511	36,140	D	472 i	760 i	448	1,040	935	764	4,984	4,964	D	21,304
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	36,052	D	463 i	757 i	445	998	933	741	4,984	4,964	D	21,304
Telecommunications	517	3,755	25 i	85 i	111 i	48	68	117 i	153	66 i	0	330 i	2,750
Data processing, hosting, and related services	518	9,029	D	D	463 i	465	1,183	1,206	D	2,905	D	1,204	D
Other information	other 51	14,849	D	D	58 i	48	207	298	131	1,341	D	* i	D
Finance and insurance	52	4,122	10 i	42 i	* i	18 i	67	75	353	231	134	795	2,396
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	30,975 i	1,571 i	3,304 i	3,760 i	2,401 i	2,894	2,134	1,118	6,182 i	4,195	1,280 i	2,135
Architectural, engineering, and related services	5413	3,375	175 i	217 i	463 i	225 i	339	217	101	473	297	117	751
Computer systems design and related services	5415	11,019 i	527 i	1,258 i	2,106 i	1,150 i	932 i	710	521 i	2,410 i	685 i	710 i	11
Scientific R&D services	5417	12,807	743 i	1,522	1,054	781	1,185	705	226	2,969 i	3,170	419	34 i
Biotechnology R&D	541711	3,459	146 i	429	D	148	D	11 i	0	D	1,531	0	34 i
Physical, engineering, and life sciences (except biotechnology) R&D	541712	8,670	594 i	1,080	821	620	987	694	226	1,591 i	1,639	419	0
Social sciences and humanities R&D	541720	678	3 i	13	D	13	D	0	0	D	0	0	0
Other professional, scientific, and technical services	other 54	3,775	126 i	308	137	246	439 i	502	271	331	43	35	1,338 i
Health care services	621-23	501 i	D	10	21	30 i	202 i	81	108	D	0	1 i	D
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	861 i	38 i	D	53 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.