

TABLE 18. Domestic R&D paid for and performed by the company, by industry and company size: 2011
(Millions of U.S. dollars)

Industry	NAICS code	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	238,768	2,981	4,907	9,429	7,611	10,433	11,149	8,739	42,905	18,659	42,585	79,370
Manufacturing industries	31–33	163,340	560	1,831	2,521	3,742	6,070	5,913	5,787	31,675	14,351	32,148	58,742
Food	311	4,204	5	91	105	215	151	208	93	428	175	724	2,009
Beverage and tobacco products	312	684	*	2	*	2	9	22	10	D	D	D	D
Textile, apparel, and leather products	313–316	600	18	12	32	11	115 i	22	41	243	D	D	0
Wood products	321	202	3	3	9	13	10	14	4	62	50	34	0
Paper	322	1,323	1	12	3	9	36	D	35	97	58	D	D
Printing and related support activities	323	174	*	2	15	21	34	16	12	58	2	7	9
Petroleum and coal products	324	1,025	*	84	9	10	15	D	0	D	0	D	D
Chemicals	325	49,988	156	311	591	739	1,349	1,538	1,310	9,990	3,207	15,359	15,437
Basic chemicals	3251	3,674	3	D	59	130	105	93	206	1,030	370	D	D
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	787	*	4	D	11	32	47	D	D	D	D	D
Pesticide, fertilizer, and other agricultural chemical	3253	703	D	78	3	11	15	50	D	D	D	D	0
Pharmaceuticals and medicines	3254	41,111	81	148	402	508	1,071	1,288	884	7,981	1,975	12,889	13,884
Soap, cleaning compound, and toilet preparation	3256	2,471	D	D	D	31	50	21	70	204	527	341	D
Paint, coating, adhesive, and other chemicals	3255, 3259	1,242	D	26	83	48	75	39	D	581	D	D	D
Plastics and rubber products	326	1,973	8	23	87	119	204	206	206	422	540	46	112
Nonmetallic mineral products	327	1,145	*	8	45 i	43	29	21	51	88	108	752	0
Primary metals	331	591	1	7	7	29	43	24	60	168	70	19	164
Fabricated metal products	332	1,738	15	26	131	280	435	228	132	316	55	62	58
Machinery	333	13,578	46	281	349	388	742	596	616	1,965	1,365	1,403	5,827
Agricultural implement	33311	1,255	2	8	4	20	D	12	11	D	0	D	D
Semiconductor machinery	333295	2,220	D	D	D	D	72	151	278	753 i	D	0	0
Engine, turbine, and power transmission equipment	3336	3,599	5	D	D	D	D	37 i	D	D	D	654	D
Other machinery	other 333	6,503	D	D	D	320	593	396	D	1,003	D	D	D
Computer and electronic products	334	53,664	178	531	597	1,010	1,826	1,815	2,262	11,954	6,571	7,428	19,494
Communications equipment	3342	10,796	10	195	73	D	293	381	631	1,568	1,293 i	D	4,800
Semiconductor and other electronic components	3344	22,855	D	D	D	D	833	968	784	6,795	2,653	D	D
Navigational, measuring, electromedical, and control instruments	3345	10,643	137	188	D	340	409	229	384	1,650	805	2,016	D
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	4,135	31	55	D	58	169	29	111	280	D	D	2,479
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	2,823	87	8	D	72	33	63	1	311	D	D	1,688

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Other measuring and controlling device	other 3345	3,684	19	125	D	210	207	138	273	1,059	621	790	D
Other computer and electronic products	other 334	9,370	D	D	D	D	291	237	462	1,941	1,821	0	D
Electrical equipment, appliances, and components	335	3,417	71	98	95	125	269	271	227	491	557	676	535
Transportation equipment	336	20,275	11	67	62	206	310	341	258	2,408	895	2,544	13,171
Motor vehicles, bodies, trailers, and parts	3361, 3362, 3363	11,737	3	D	D	107	179	216	127	1,764	D	1,136	D
Aerospace products and parts	3364	7,585	7	16	22	12	108	45	92	492	382	1,409	5,001
Aircraft, aircraft engine, and aircraft parts	336411–13	7,328	6	16	19	12	D	D	92	372	D	D	5,001
Guided missile, space vehicle, and related parts	336414–15, 336419	257	*	0	3	*	D	D	0	120	D	D	0
Military armored vehicle, tank, and tank component	336992	28	0	1	0	*	4	D	D	0	0	0	0
Other transportation equipment	other 336	925	2	D	D	87	20	D	D	152	D	0	D
Furniture and related products	337	317	0	4	13	8	46	34	13	84	95	19	0
Miscellaneous manufacturing	339	8,442	45	271	372	514	448	520	456	2,858	499	2,459	0
Medical equipment and supplies	3391	6,279	37	D	311	245	328	421	289	2,078	200	D	0
Other miscellaneous manufacturing	3399	2,163	8	D	61	269	119	99	167	780	299	D	0
Nonmanufacturing industries	21–23, 42–81	75,428	2,421	3,075	6,908	3,869	4,363	5,236	2,953	11,231	4,308	10,437	20,628
Mining, extraction, and support activities	21	2,425	*	38	27	127	17	19	D	24	D	1,108	D
Utilities	22	302	18	43	8	8	*	2	24	101	18	55	24
Wholesale trade	42	1,419 i	59	86	119	129	245	403 i	245 i	121 i	13 i	0	0
Electronic shopping and electronic auctions	454111–12	949 i	1	5	D	D	1 i	D	D	D	0	D	0
Transportation and warehousing	48–49	81	0	2	1	4	11	D	11	D	4	0	35
Information	51	41,014	627	936	846	1,355	1,232	2,005	1,350	6,144	3,238	6,343	16,938
Publishing	511	27,748	586	455	516	879	601	732	697	4,674	3,087	0	15,522
Newspaper, periodical, book, and directory publishers	5111	468	2	99	*	3	27	5	20	0	300	0	11
Software publishers	5112	27,280	584	355	516	876	574	727	677	4,674	2,787	0	15,511
Telecommunications	517	2,040	5	104	D	102	68	D	76	D	0	D	D
Data processing, hosting, and related services	518	4,257	D	265	181	259	353	1,118	326	936	D	677	0
Other information	other 51	6,969	D	113	D	114	211	D	252	D	D	D	D
Finance and insurance	52	3,310	97	83	D	D	178	371	396	403	145	D	1,573
Real estate and rental and leasing	53	395	*	2	D	D	91	D	0	D	0	1	0
Lessors of nonfinancial intangible assets (except copyrighted works)	533	324	*	2	D	D	D	D	0	D	0	0	0
Other real estate and rental and leasing	other 53	71	0	0	0	D	D	0	0	D	0	1	0
Professional, scientific, and technical services	54	23,368	1,451	1,816	5,811	2,084	2,375	1,402	813	3,976	637	1,976 i	1,025
Architectural, engineering, and related services	5413	1,808	70	237	132	369	384	117	D	122	261	D	56

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Computer systems design and related services	5415	11,706	454	676	3,283	600	873	685	620	2,083	231 i	1,963 i	240
Scientific research and development services	5417	6,170	539	843	964	971	994	503	32	1,282	32	0	10
Biotechnology research and development	541711	4,283	285	461	518	758	860	290	19	1,082	0	0	10
Physical, engineering, and life sciences (except biotechnology) research and development	541712	1,871	251	377	441	213	130	213	13	200	32	0	0
Social sciences and humanities research and development	541720	17 i	3 i	4	6 i	0	4	0	0	0	0	0	0
Other professional, scientific, and technical services	other 54	3,684	389	61	1,431	144	124	97	D	489	112	D	719
Health care services	621-23	558	147	15	6	42	82	70	D	61	0	0	D
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	1,607	20	50	68	53	131	D	D	220	D	D	63

* = amount < \$500,000; D = data withheld to avoid disclosing operations of individual companies; i = value > 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = 2007 North American Industry Classification System.

^a 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, 2011.