

TABLE 60. U.S. patent applications and patents issued, by industry and company size: 2013
(Number)

Industry and company size	NAICS code	Applications			Patents issued ^c
		Total	To foreign jurisdictions ^a	From within organized R&D activity ^b	
All industries	21–23, 31–33, 42–81	149,818	60,923	101,589	98,370
Manufacturing industries	31–33	101,685	49,031	70,701	65,266
Food	311	2,617 i	390	491	1,378 i
Beverage and tobacco products	312	496	380	453	294
Textile, apparel, and leather products	313–16	850	198	665	596
Wood products	321	237	34	73	72
Paper	322	1,051	420	518	379
Printing and related support activities	323	204	68	135	113
Petroleum and coal products	324	135	98	115	66
Chemicals	325	17,004	11,148	13,674	11,024
Basic chemicals	3251	2,115	1,424	1,622	1,179
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	1,402	979	1,124	787
Pesticide, fertilizer, and other agricultural chemicals	3253	1,661	D	D	711 i
Pharmaceuticals and medicines	3254	8,991	6,247	7,881	6,383
Soap, cleaning compound, and toilet preparation	3256	1,795	1,386	1,591	1,513
Paint, coating, adhesive, and other chemicals	3255, 3259	1,040	D	D	449
Plastics and rubber products	326	3,915	2,151	2,845	2,355
Nonmetallic mineral products	327	1,503	898	1,236	658
Primary metals	331	372	167	153	202
Fabricated metal products	332	2,685	617	1,280	1,461
Machinery	333	7,933	3,319	5,190	4,779
Agricultural implement	33311	982	361	687	552
Semiconductor machinery	333295	2,132	529	893	1,148
Engine, turbine, and power transmission equipment	3336	659	339	576	372
Other machinery	other 333	4,159	2,089	3,033	2,707
Computer and electronic products	334	33,520	11,986	24,351	23,284
Communications equipment	3342	8,079	1,817	5,055	4,886
Semiconductor and other electronic components	3344	16,191	6,671	12,509	12,425
Navigational, measuring, electromedical, and control instruments	3345	6,220	2,582	4,477	4,179
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	1,391	734	1,088	833
Search, detection, navigation, guidance, aeronautical, and nautical system and instrument	334511	2,253	883	1,813	1,873
Other measuring and controlling device	other 3345	2,576	965	1,576	1,472
Other computer and electronic products	other 334	3,029	916	2,310	1,795
Electrical equipment, appliances, and components	335	3,963	1,921	3,215	2,467
Transportation equipment	336	12,788	8,918	7,063	8,594
Automobiles, bodies, trailers, and parts	3361, 3362, 3363	5,676	3,860	3,097	3,686
Aerospace products and parts	3364	6,766	4,899	3,745	4,771
Aircraft, aircraft engine, and aircraft parts	336411–13	6,632	4,838	3,678	4,660
Guided missile, space vehicle, and related parts	336414–15, 336419	134	61	67	112

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Military armored vehicle, tank, and tank components	336992	13	D	13	9
Other transportation	other 336	332	D	208	127
Furniture and related products	337	471	149	239	295
Miscellaneous manufacturing	339	11,945	6,169	9,006	7,249
Medical equipment and supplies	3391	8,864	5,066	6,881	5,306
Other miscellaneous manufacturing	3399	3,081	1,103	2,125	1,942
Nonmanufacturing industries	21–23, 42–81	48,133	11,893	30,888	33,104
Mining, extraction, and support activities	21	3,349	1,765	2,613	2,768
Utilities	22	81	25 i	60	36
Wholesale trade	42	1,452	35	66	1,022
Electronic shopping and electronic auctions	454111–12	2,471	D	D	710
Transportation and warehousing	48–49	142	42	99	89
Information	51	28,463	6,337	18,786	23,003
Publishing	511	15,136	5,017	10,341	15,072
Newspaper, periodical, book, and directory publishers	5111	49	0	0	40
Software publishers	5112	15,087	5,017	10,341	15,032
Telecommunications	517	3,199	216	1,492	3,263
Data processing, hosting, and related services	518	3,130	707	D	1,879
Other information	other 51	6,998	397	D	2,789
Finance and insurance	52	1,457	96	889	738
Real estate and rental and leasing	53	166	55	78	126
Lessors of nonfinancial intangible assets (except copyrighted works)	533	107	D	D	96
Other real estate and rental and leasing	other 53	59	D	D	30
Professional, scientific, and technical services	54	10,088	3,188	5,821	4,418
Architectural, engineering, and related services	5413	1,733	1,042	1,116	759
Computer systems design and related services	5415	2,648	352	1,242	1,196
Scientific research and development services	5417	3,961	1,547	2,855	1,698
Biotechnology research and development	541711	1,600	D	1,358	621
Physical, engineering, and life sciences (except biotechnology) research and development	541712	2,324	780	1,482	1,066
Social sciences and humanities research and development	541720	36	D	15	11
Other professional, scientific, and technical services	other 54	1,745	248	607	764
Health care services	621–23	177	33	52	26
Other nonmanufacturing	23, 44–45 (excluding 454111–12), 55–56, 624, 71–72, 81	288	D	D	166
All companies (number of domestic employees)	–	149,818	60,923	101,589	98,370
Small companies ^d					
5–499	–	37,862	10,054	17,727	19,098
5–99	–	24,179	5,483	8,934	10,842

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5-49	-	18,238	3,279	5,198	7,823
5-9	-	4,618	241	462	2,473
10-24	-	7,832	1,655	2,297	2,598
25-49	-	5,788	1,382	2,438	2,752
50-99	-	5,941	2,204	3,736	3,019
100-249	-	8,022	2,186	4,508	4,584
250-499	-	5,660	2,385	4,285	3,672
Medium and large companies					
500-999	-	5,694	2,552	4,815	3,259
1,000-4,999	-	21,943	10,347	17,329	13,826
5,000-9,999	-	14,359	4,556	9,586	10,630
10,000-24,999	-	22,223	14,793	19,376	13,821
25,000 or more	-	47,736	18,620	32,756	37,735

D = data withheld to avoid disclosing operations of individual companies.

NAICS = 2007 North American Industry Classification System.

^a Also includes patent applications that company planned to apply for in foreign jurisdictions.

^b Includes patent applications in which the named inventors were R&D employees.

^c For a small number of companies issued more than 100 patents by the U.S. Patent and Trademark Office (USPTO), counts from USPTO.gov were used to supplement survey data.

^d 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. Statistics are based on companies in the United States that reported to the survey. These statistics do not include an adjustment to the weight to account for unit nonresponse.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, and U.S. Census Bureau, Business R&D and Innovation Survey, 2013.