

TABLE 54. U.S. patent applications and patents issued to companies located in the United States that performed or funded R&D, by industry and company size: 2014  
(Number)

Industry and company size	NAICS code	Applications			Patents issued <sup>c</sup>
		Total	To foreign jurisdictions <sup>a</sup>	From within organized R&D activity <sup>b</sup>	
All industries	21-23, 31-33, 42-81	125,892	60,352	103,542	98,237
Manufacturing industries	31-33	85,729	49,084	72,742	65,645
Food	311	2,632 i	383	578	835 i
Beverages and tobacco products	312	625	524	D	287
Textiles, apparel, and leather products	313-16	588	292	D	515
Wood products	321	36	13	36	51
Paper	322	377	271	320	288
Printing and related support activities	323	108	66	108	97
Petroleum and coal products	324	115	82	D	69
Chemicals	325	14,010	10,157	13,379	10,206
Basic chemicals	3251	1,835	1,409	1,794	1,125
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	910	754	861	497
Pesticides, fertilizers, and other agricultural chemicals	3253	1,134 i	395	1,102 i	791 i
Pharmaceuticals and medicines	3254	7,585	5,790	7,251	5,982
Soaps, cleaning compounds, and toilet preparations	3256	1,627	1,228	1,460	1,243
Paints, coatings, adhesives, and other chemicals	3255, 3259	919	581	912	569
Plastics and rubber products	326	2,706	1,955	2,576	1,200
Nonmetallic mineral products	327	1,309 i	864 i	1,293 i	529 i
Primary metals	331	254	162	209	121
Fabricated metal products	332	1,499	1,023	1,386	979
Machinery	333	6,828	3,603	6,322	4,245
Agricultural implements	33311	809	426	D	453
Semiconductor machinery	333295	1,661	720	D	1,015
Engines, turbines, and power transmission equipment	3336	1,647	878	1,524	1,007
Other machinery	other 333	2,711	1,579	D	1,770
Computer and electronic products	334	28,958	12,197	25,198	26,980
Communications equipment	3342	7,293	1,857	5,984	6,156 i
Semiconductors and other electronic components	3344	13,665	6,586	12,172	14,110
Navigational, measuring, electromedical, and control instruments	3345	5,480	2,905	4,581	3,912
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	1,030	762	1,022	590
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	2,147	966	2,017	1,951
Other measuring and controlling devices	other 3345	2,302	1,177	1,542	1,371
Other computer and electronic products	other 334	2,521	849	2,462	2,802
Electrical equipment, appliances, and components	335	3,667	2,103	3,059	2,352
Transportation equipment	336	12,020	8,868	7,934	8,848
Automobiles, bodies, trailers, and parts	3361-63	5,634	4,485	3,840	3,866

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Aerospace products and parts	3364	6,145	4,255	3,885	4,841
Aircraft, aircraft engines, and aircraft parts	336411-13	6,124	D	D	4,836
Guided missiles, space vehicles, and related parts	336414-15, 336419	21	D	D	5
Military armored vehicles, tanks, and tank components	336992	14	D	D	6
Other transportation	other 336	226	D	D	136
Furniture and related products	337	330	133	D	183
Miscellaneous manufacturing	339	9,668	6,389	D	7,861
Medical equipment and supplies	3391	7,474	5,064	6,967	6,051
Other miscellaneous manufacturing	3399	2,194	1,325	D	1,810
Nonmanufacturing industries	21-23, 42-81	40,163	11,268	30,800	32,592
Mining, extraction, and support activities	21	2,811	1,988	2,738	2,815
Utilities	22	45	12	29	50
Wholesale trade	42	92	35	65	73
Electronic shopping and electronic auctions	454111-12	D	D	D	D
Transportation and warehousing	48-49	D	37	D	62
Information	51	28,487	6,344	20,130	25,299
Publishing	511	16,336	5,178	12,174	15,441
Newspaper, periodical, book, and directory publishers	5111	D	0	D	D
Software publishers	5112	D	5,178	D	D
Telecommunications	517	2,892	156	2,080	3,555
Data processing, hosting, and related services	518	2,979	658	1,967	2,072
Other information	other 51	6,280	352	3,910	4,231
Finance and insurance	52	1,330	37	727	600
Real estate and rental and leasing	53	37	D	37	26
Lessors of nonfinancial intangible assets (except copyrighted works)	533	D	D	D	D
Other real estate and rental and leasing	other 53	D	D	D	D
Professional, scientific, and technical services	54	4,655	2,375	4,387	2,625
Architectural, engineering, and related services	5413	751	498	686	383
Computer systems design and related services	5415	844	251	828	681
Scientific R&D services	5417	2,493	1,439	2,405	1,207
Biotechnology R&D	541711	525	373	D	234
Physical, engineering, and life sciences (except biotechnology) R&D	541712	1,940	1,047	1,877	949
Social sciences and humanities R&D	541720	27	19	D	23
Other professional, scientific, and technical services	other 54	567	187	467	355
Health care services	621-23	137	94	129	44

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		Total	To foreign jurisdictions <sup>a</sup>	From within organized R&D activity <sup>b</sup>	
Other nonmanufacturing	23, 44–45 (excluding 454111–12), 55–56, 624, 71–72, 81	D	D	D	D
All companies (number of domestic employees)	–	125,892	60,352	103,542	98,237
Small companies <sup>d</sup>					
5–499	–	17,861	8,978	16,413	10,680
5–99	–	8,178	4,264	7,509	4,453
5–49	–	5,519	2,981	5,005	2,918
5–9	–	950	464	771	268
10–24	–	2,004	1,159	1,830	929
25–49	–	2,565	1,358	2,404	1,721
50–99	–	2,659	1,283	2,504	1,535
100–249	–	5,345	2,445	4,858	3,151
250–499	–	4,338	2,269	4,047	3,076
Medium and large companies					
500–999	–	5,068	2,557	4,540	3,280
1,000–4,999	–	17,663	8,841	15,840	14,385
5,000–9,999	–	13,724	5,134	9,915	11,179
10,000–24,999	–	22,448	15,139	20,566	16,794
25,000 or more	–	49,127	19,703	36,267	41,919

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.

<sup>a</sup> Also includes patent applications that the company *planned* to apply for in foreign jurisdictions.

<sup>b</sup> Includes patent applications in which the named inventor(s) were R&D employees.

<sup>c</sup> 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.

<sup>d</sup> 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. 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, 2014.