## TABLE 16

Total number of patent applications and patents currently owned for companies with 1–4 employees, by industry: 2016 (Number)

ndustry	NAICS code	Patent applications	Patents currentl owned
All industries	21-23, 31-33, 42-81	13,021	20,606
	31-33	2,814	5,808
Manufacturing industries Food	31-33		
	311	s 0	s 0
Beverages and tobacco products			
Textiles, apparel, and leather products	313-16	0	0
Wood products	321	0	0
Paper	322	0	0
Printing and related support activities	323	0	0
Petroleum and coal products	324	S	S
Chemicals	325	321	494
Basic chemicals	3251	0	S
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	5	50
Pesticides, fertilizers, and other agricultural chemicals	3253	D	4
Pharmaceuticals and medicines	3254	S	228
Soaps, cleaning compounds, and toilet preparations	3256	0	0
Paints, coatings, adhesives, and other chemicals	3255, 3259	D	72
Plastics and rubber products	326	0	S
Nonmetallic mineral products	327	S	S
Primary metals	331	0	0
Fabricated metal products	332	S	s
Machinery	333	442	818
Agricultural implements	33311	S	s
Semiconductor machinery	333242	S	S
Engines, turbines, and power transmission equipment	3336	S	0
Other machinery	other 333	212	s
Computer and electronic products	334	459	836
Communications equipment	3342	27	75
Semiconductors and other electronic components	3344	92	156
•	3344		470
Navigational, measuring, electromedical, and control instruments		226 65	470
Electromedical, electrotherapeutic, and irradiation apparatuses Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334510, 334517 334511	10	124
Other measuring and controlling devices	other 3345	152	330
Other computer and electronic products	other 334	113	135
Electrical equipment, appliances, and components	335	113	224
Transportation equipment	335		
	3361-63	S	S
Automobiles, bodies, trailers, and parts		S	D
Aerospace products and parts	3364	0	0
Aircraft, aircraft engines, and aircraft parts	336411-13		0
Guided missiles, space vehicles, and related parts	336414-15, 336419	0	0
Military armored vehicles, tanks, and tank components	336992	D	D
Other transportation	other 336	D	0
Furniture and related products	337	0	0
Miscellaneous	339	930	2,151
Medical equipment and supplies	3391	S	S
Other miscellaneous manufacturing	3399	725	1,960
Nonmanufacturing industries	21-23, 42-81	10,207	14,798
Mining, extraction, and support activities	21	S	S
Utilities	22	S	s
Wholesale trade	42	1,763	2,804

## TABLE 16

Total number of patent applications and patents currently owned for companies with 1–4 employees, by industry: 2016 (Number)

lustry	NAICS code	Patent applications	Patents currently owned
Electronic shopping and electronic auctions	454111-12	s	s
Transportation and warehousing	48-49	0	0
Information	51	381	178
Publishing	511	147	178
Newspaper, periodical, book, and directory publishers	5111	0	0
Software publishers	5112	147	178
Telecommunications	517	0	0
Data processing, hosting, and related services	518	S	0
Other information	other 51	S	0
Finance and insurance	52	0	0
Real estate and rental and leasing	53	S	S
Lessors of nonfinancial intangible assets (except copyrighted works)	533	S	S
Other real estate and rental and leasing	other 53	0	0
Professional, scientific, and technical services	54	7,431	10,943
Architectural, engineering, and related services	5413	1,012	2,186
Computer systems design and related services	5415	1,607	1,956
Scientific research and development services	5417	3,879	5,578
Biotechnology research and development	541711	1,382	2,333
Physical, engineering, and life sciences (except biotechnology) research and development	541712	2,487	3,188
Social sciences and humanities research and development	541720	11	57
Other professional, scientific, and technical services	other 54	933	1,224
Health care services	621-23	S	s
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	S	422

D = data withheld to avoid disclosing operations of individual companies; i = > 50% of the estimate is imputation to account for nonresponse; s = suppressed for reliability; standard error exceeds publication standards.

NAICS = 2012 North American Industry Classification System.

## Note(s)

Detail may not add to total because of rounding. Industry classification based on sample NAICS code. Statistics are representative of companies located in the United States that performed or funded R&D.

## Source(s)

National Science Foundation, National Center for Science and Engineering Statistics, and U.S. Census Bureau, Microbusiness R&D and Innovation Survey, 2016.