

TABLE 62. Importance of utility patents, by industry and company size: 2013
(Percent)^a

Industry and company size	NAICS code	Very important	Somewhat important	Not important
All industries	21–23, 31–33, 42–81	51.0	15.8	33.2
Manufacturing industries	31–33	57.2	16.4	26.4
Food	311	27.5	12.8	59.7
Beverage and tobacco products	312	42.2	26.4	31.4
Textile, apparel, and leather products	313–16	40.4	28.1	31.6
Wood products	321	50.0	22.2	27.8
Paper	322	36.8	33.8	29.4
Printing and related support activities	323	39.9	27.3	32.8
Petroleum and coal products	324	58.2	15.7	26.2
Chemicals	325	66.5	13.1	20.4
Basic chemicals	3251	71.0	8.2	20.8
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	63.1	16.5	20.3
Pesticide, fertilizer, and other agricultural chemicals	3253	26.6	39.2	34.1
Pharmaceuticals and medicines	3254	76.9	7.4	15.6
Soap, cleaning compound, and toilet preparation	3256	42.5	26.7	30.8
Paint, coating, adhesive, and other chemicals	3255, 3259	35.8	29.7	34.5
Plastics and rubber products	326	44.7	14.6	40.7
Nonmetallic mineral products	327	50.5	31.5	18.0
Primary metals	331	49.4	22.0	28.7
Fabricated metal products	332	38.0	18.9	43.1
Machinery	333	44.1	29.7	26.2
Agricultural implement	33311	31.8	59.3	8.9
Semiconductor machinery	333295	75.6	D	D
Engine, turbine, and power transmission equipment	3336	46.3	19.3	34.4
Other machinery	other 333	43.1	28.5	28.4
Computer and electronic products	334	55.9	15.2	28.9
Communications equipment	3342	50.5	27.0	22.5
Semiconductor and other electronic components	3344	70.1	12.4	17.5
Navigational, measuring, electromedical, and control instruments	3345	64.2	18.1	17.6
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	67.9	10.5	21.6
Search, detection, navigation, guidance, aeronautical, and nautical system and instrument	334511	59.4	18.5	22.0
Other measuring and controlling device	other 3345	63.6	21.5	14.9
Other computer and electronic products	other 334	28.2	8.8	62.9
Electrical equipment, appliances, and components	335	60.0	22.0	18.0
Transportation equipment	336	59.6	13.3	27.1
Automobiles, bodies, trailers, and parts	3361, 3362, 3363	70.9	11.8	17.3
Aerospace products and parts	3364	35.7	15.9	48.4
Aircraft, aircraft engine, and aircraft parts	336411–13	32.9	14.6	52.4
Guided missile, space vehicle, and related parts	336414–15, 336419	63.6	D	D
Military armored vehicle, tank, and tank components	336992	100.0	0.0	0.0
Other transportation	other 336	49.1	17.0	33.9
Furniture and related products	337	70.0	10.0	20.0
Miscellaneous manufacturing	339	80.5	7.9	11.6
Medical equipment and supplies	3391	77.3	8.9	13.8
Other miscellaneous manufacturing	3399	83.4	7.0	9.6
Nonmanufacturing industries	21–23, 42–81	43.2	15.0	41.8
Mining, extraction, and support activities	21	70.5	13.6	15.9
Utilities	22	33.6	36.1	30.3
Wholesale trade	42	S	S	S
Electronic shopping and electronic auctions	454111–12	33.3	D	D
Transportation and warehousing	48–49	21.4	21.4	57.1
Information	51	33.0	23.6	43.5
Publishing	511	29.8	24.5	45.8
Newspaper, periodical, book, and directory publishers	5111	0.0	0.0	100.0

TABLE 62. Importance of utility patents, by industry and company size: 2013
(Percent)^a

Industry and company size	NAICS code	Very important	Somewhat important	Not important
Software publishers	5112	30.0	24.7	45.3
Telecommunications	517	52.5	16.6	30.9
Data processing, hosting, and related services	518	32.4	26.2	41.4
Other information	other 51	37.2	15.1	47.7
Finance and insurance	52	29.1	16.1	54.8
Real estate and rental and leasing	53	55.6	D	D
Lessors of nonfinancial intangible assets (except copyrighted works)	533	100.0	0.0	0.0
Other real estate and rental and leasing	other 53	D	D	50.0
Professional, scientific, and technical services	54	52.3	12.0	35.7
Architectural, engineering, and related services	5413	38.7	10.6	50.6
Computer systems design and related services	5415	40.0	23.4	36.7
Scientific research and development services	5417	57.5	8.2	34.3
Biotechnology research and development	541711	68.6	7.0	24.4
Physical, engineering, and life sciences (except biotechnology) research and development	541712	49.1	9.5	41.4
Social sciences and humanities research and development	541720	70.7	D	D
Other professional, scientific, and technical services	other 54	65.6	6.2	28.2
Health care services	621–23	31.4	39.4	29.1
Other nonmanufacturing	23, 44–45 (excluding 454111–12), 55–56, 624, 71–72, 81	7.5	7.7	84.7
All companies (number of domestic employees)	–	51.0	15.8	33.2
Small companies ^b				
5–499	–	49.0	15.0	36.0
5–99	–	52.2	13.4	34.3
5–49	–	56.1	9.7	34.2
5–9	–	69.1	8.5	22.5
10–24	–	65.4	8.6	26.1
25–49	–	44.0	11.0	45.0
50–99	–	41.8	23.6	34.6
100–249	–	41.3	16.5	42.2
250–499	–	44.6	20.7	34.6
Medium and large companies				
500–999	–	49.1	21.4	29.5
1,000–4,999	–	60.0	19.0	21.0
5,000–9,999	–	69.4	15.7	14.9
10,000–24,999	–	75.7	12.5	11.8
25,000 or more	–	71.2	17.5	11.3

D = data withheld to avoid disclosing operations of individual companies; S = data withheld as more than 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = 2007 North American Industry Classification System.

^a Statistics are representative of companies in the United States that were eligible to receive Form BRDI-1 and performed or funded R&D. These statistics are not comparable to estimates prior to 2012 as those estimates are representative of all companies in the United States.

^b 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: 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.

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