

Appendix table 6-42

**USPTO patent applications and grants, by industry: 2011**

(Number)

Industry and company size	NAICS code (2007)	Patent applications	Patents issued
All industries	21–23, 31–33, 42–81	135,958	101,201
Manufacturing industries	31–33	82,878	58,124
Food	311	2,810	1,276
Beverage and tobacco products	312	566	296
Textile, apparel, and leather products	313–316	634	469
Wood products	321	121	86
Paper	322	1,251	969
Printing and related support activities	323	279	123
Petroleum and coal products	324	693	463
Chemicals	325	15,192	8,558
Basic chemicals	3251	4,301	1,302
Resin, synthetic rubber, fibers, and filament	3252	745	506
Pesticide, fertilizer, and other agricultural chemical	3253	1,078	700
Pharmaceuticals and medicines	3254	6,777	4,405
Soap, cleaning compound, and toilet preparation	3256	1,582	1,145
Paint, coating, adhesive, and other chemicals	3255, 3259	708	500
Plastics and rubber products	326	2,276	1,572
Nonmetallic mineral products	327	924	476
Primary metals	331	463	235
Fabricated metal products	332	1,989	1,779
Machinery	333	9,581	6,064
Agricultural implement	33311	661	448
Semiconductor machinery	333295	1,244	827
Engine, turbine, and power transmission equipment	3336	3,331	1,974
Other machinery	other 333	4,345	2,815
Computer and electronic products	334	26,269	23,042
Communications equipment	3342	4,054	3,064
Semiconductor and other electronic components	3344	11,391	10,460
Navigational, measuring, electromedical, and control instruments	3345	5,236	4,394
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	1,692	1,142
Search, detection, navigation, guidance, aeronautical, and nautical system and instrument	334511	2,179	2,236
Other measuring and controlling device	other 3345	1,364	1,016
Other computer and electronic products	other 334	5,588	5,124
Electrical equipment, appliances, and components	335	3,233	2,145
Transportation equipment	336	7,370	4,712
Automobiles, bodies, trailers, and parts	3361–3363	4,268	2,679
Aerospace products and parts	3364	2,814	1,905
Aircraft, aircraft engines, and aircraft parts	336411–336413	2,713	1,830
Guided missiles, space vehicles, and related parts	336414, 336415, 336419	101	75
Military armored vehicles, tanks, and tank components	336992	14	2
Other transportation equipment	other 336	274	126
Furniture and related products	337	521	273
Miscellaneous manufacturing	339	8,705	5,588
Medical equipment and supplies	3391	6,362	3,872
Other miscellaneous manufacturing	3399	2,343	1,716
Nonmanufacturing industries	21–23, 42–81	53,080	43,077
Mining, extraction, and support activities	21	2,872	1,497
Utilities	22	128	30
Wholesale trade	42	6,958	3,715
Electronic shopping and electronic auctions	454111, 454112	974	240
Transportation and warehousing	48, 49	337	35
Information	51	16,615	12,828
Publishing	511	9,015	10,501

**USPTO patent applications and grants, by industry: 2011**

(Number)

Industry and company size	NAICS code (2007)	Patent applications	Patents issued
Newspaper, periodical, book, and directory publishers	5111	25	23
Software publishers	5112	8,990	10,478
Telecommunications	517	1,414	970
Data processing, hosting, and related services	518	1,013	441
Other information	other 51	5,172	915
Finance and insurance	52	1,126	582
Real estate and rental and leasing	53	432	317
Lessors of nonfinancial intangible assets (except copyrighted works)	533	265	283
Other real estate and rental and leasing	other 53	167	34
Professional, scientific, and technical services	54	12,061	6,439
Architectural, engineering, and related services	5413	1,979	940
Computer systems design and related services	5415	2,695	1,084
Scientific R&D services	5417	6,125	2,600
R&D in biotechnology	541711	2,993	1,030
R&D in physical, engineering, and life sciences (except biotechnology)	541712	3,120	1,568
R&D in social sciences and humanities	541720	13	2
Other professional, scientific, and technical services	other 54	1,262	1,815
Health care services	621-623	1,752	104
Other nonmanufacturing	23, 44, 45 (excluding 454111, 454112), 55, 56, 624, 71, 72, 81	9,825	17,291

NAICS = North American Industry Classification System; USPTO = U.S. Patent and Trademark Office.

NOTES: Detail may not add to total because of rounding. Industry classification is based on 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 based on companies in the United States that reported to the survey, regardless of whether they did or did not perform or fund R&D. These statistics do not include an adjustment to the weight to account for unit nonresponse. For a small number of companies issued more than 100 patents by the USPTO, counts from <http://www.USPTO.gov> were used to supplement survey data.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics and U.S. Census Bureau, Business R&D and Innovation Survey, 2011.