

TABLE 63

**Total patent licensing revenue of companies located in the United States that performed or funded R&D, by industry and company size: 2018**

(Millions of U.S. dollars)

Industry and company size	NAICS code	Revenue <sup>a</sup>
All industries	21–23, 31–33, 42–81	21,472
Manufacturing industries	31–33	19,387
Food	311	52
Beverage and tobacco products	312	2
Textile, apparel, and leather products	313–16	36
Wood products	321	*
Paper	322	7
Printing and related support activities	323	1
Petroleum and coal products	324	169
Chemicals	325	7,200
Basic chemicals	3251	91
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	0 - 699
Pesticide, fertilizer, and other agricultural chemicals	3253	51
Pharmaceuticals and medicines	3254	6,359
Soap, cleaning compound, and toilet preparation	3256	3
Paint, coating, adhesive, and other chemicals	3255, 3259	0 - 699
Plastics and rubber products	326	99
Nonmetallic mineral products	327	46
Primary metals	331	2
Fabricated metal products	332	255
Machinery	333	521 i
Agricultural implement	33311	3
Semiconductor machinery	333242	0 - 511
Engine, turbine, and power transmission equipment	3336	9
Other machinery	other 333	0 - 511 i
Computer and electronic products	334	9,477
Communications equipment	3342	0 - 1,474
Semiconductor and other electronic components	3344	6,546
Navigational, measuring, electromedical, and control instruments	3345	1,459
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	56
Search, detection, navigation, guidance, aeronautical, and nautical system and instrument	334511	0 - 1,404
Other measuring and controlling device	other 3345	0 - 1,404
Other computer and electronic products	other 334	0 - 1,474
Electrical equipment, appliances, and components	335	474
Transportation equipment	336	436 i
Motor vehicles, bodies, trailers, and parts	3361–63	426 i
Aerospace products and parts	3364	8
Aircraft, aircraft engine, and aircraft parts	336411–13	8
Guided missile, space vehicle, and related parts	336414–15, 336419	*
Military armored vehicle, tank, and tank component	336992	0
Other transportation	other 336	2
Furniture and related products	337	1
Miscellaneous	339	611
Medical equipment and supplies	3391	495
Other miscellaneous manufacturing	3399	115
Nonmanufacturing industries	21–23, 42–81	2,085
Mining, quarrying, oil and gas extraction, and support activities	21	153 i

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Industry and company size	NAICS code	Revenue <sup>a</sup>
Utilities	22	*
Wholesale trade	42	6
Electronic shopping and electronic auctions	454111-12	0
Transportation and warehousing	48-49	0
Information	51	1,208
Publishing	511	489
Newspaper, periodical, book, and directory publishers	5111	0
Software publishers	5112	489
Telecommunications	517	0 - 382
Data processing, hosting, and related services	518	339
Other information	other 51	0 - 382
Finance and insurance	52	221 i
Real estate and rental and leasing	53	*
Lessors of nonfinancial intangible assets (except copyrighted works)	533	0
Other real estate and rental and leasing	other 53	*
Professional, scientific, and technical services	54	496
Architectural, engineering, and related services	5413	*
Computer systems design and related services	5415	382
Scientific research and development services	5417	98
Research and development in biotechnology	541711	18
Research and development in the physical, engineering, and life sciences (except biotechnology)	541712	80
Research and development in the social sciences and humanities	541720	0
Other professional, scientific, and technical services	other 54	16
Health care services	621-23	0
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	1
All companies (number of domestic employees)	-	21,472
Small companies		
10-19 <sup>b</sup>	-	212
20-49	-	351
Medium companies		
50-99	-	236
100-249	-	941
Large companies		
250-499	-	724
500-999	-	503
1,000-4,999	-	2,966
5,000-9,999	-	1,502
10,000-24,999	-	10,977
25,000 or more	-	3,062

\* = amount &lt; \$500,000; i = &gt; 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> Amounts received from all patent licensing activities during 2018.<sup>b</sup> Business Research and Development Survey does not include companies with fewer than 10 domestic employees.

**Note(s):**

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. Beginning in survey year 2018, statistics are representative of companies located in the United States that performed or funded \$50,000 or more of R&D. This change has affected the comparability of these estimates with estimates published for years prior to 2018. An estimate range may be displayed in place of a single estimate to avoid disclosing operations of individual companies.

**Source(s):**

National Center for Science and Engineering Statistics and U.S. Census Bureau, Business Research and Development Survey, 2018.