

TABLE 12

Total number of R&D workers for companies with 1–4 employees, by industry: 2016

(Number)

Industry	NAICS code	R&D workers
All industries	21–23, 31–33, 42–81	105,906
Manufacturing industries	31–33	11,809
Food	311	s
Beverages and tobacco products	312	s
Textiles, apparel, and leather products	313–16	s
Wood products	321	s
Paper	322	0
Printing and related support activities	323	s
Petroleum and coal products	324	s
Chemicals	325	1,238
Basic chemicals	3251	s
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	47
Pesticides, fertilizers, and other agricultural chemicals	3253	D
Pharmaceuticals and medicines	3254	416
Soaps, cleaning compounds, and toilet preparations	3256	332
Paints, coatings, adhesives, and other chemicals	3255, 3259	D
Plastics and rubber products	326	237
Nonmetallic mineral products	327	s
Primary metals	331	s
Fabricated metal products	332	1,257
Machinery	333	2,064
Agricultural implements	33311	s
Semiconductor machinery	333242	s
Engines, turbines, and power transmission equipment	3336	s
Other machinery	other 333	1,585
Computer and electronic products	334	2,480
Communications equipment	3342	190
Semiconductors and other electronic components	3344	489
Navigational, measuring, electromedical, and control instruments	3345	1,163
Electromedical, electrotherapeutic, and irradiation apparatuses	334510, 334517	279
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	89
Other measuring and controlling devices	other 3345	795
Other computer and electronic products	other 334	637
Electrical equipment, appliances, and components	335	477
Transportation equipment	336	663
Automobiles, bodies, trailers, and parts	3361–63	432
Aerospace products and parts	3364	15
Aircraft, aircraft engines, and aircraft parts	336411–13	D
Guided missiles, space vehicles, and related parts	336414–15, 336419	D
Military armored vehicles, tanks, and tank components	336992	6
Other transportation	other 336	s
Furniture and related products	337	s
Miscellaneous	339	1,872
Medical equipment and supplies	3391	662
Other miscellaneous manufacturing	3399	1,210
Nonmanufacturing industries	21–23, 42–81	94,097
Mining, extraction, and support activities	21	s
Utilities	22	s
Wholesale trade	42	11,623
Electronic shopping and electronic auctions	454111–12	1,770
Transportation and warehousing	48–49	s
Information	51	5,823

TABLE 12

Total number of R&D workers for companies with 1–4 employees, by industry: 2016

(Number)

Industry	NAICS code	R&D workers
Publishing	511	1,939
Newspaper, periodical, book, and directory publishers	5111	0
Software publishers	5112	1,939
Telecommunications	517	299
Data processing, hosting, and related services	518	1,433
Other information	other 51	2,151
Finance and insurance	52	500
Real estate and rental and leasing	53	s
Lessors of nonfinancial intangible assets (except copyrighted works)	533	s
Other real estate and rental and leasing	other 53	s
Professional, scientific, and technical services	54	71,987
Architectural, engineering, and related services	5413	10,928
Computer systems design and related services	5415	26,669
Scientific research and development services	5417	9,525
Biotechnology research and development	541711	3,304
Physical, engineering, and life sciences (except biotechnology) research and development	541712	5,700
Social sciences and humanities research and development	541720	520
Other professional, scientific, and technical services	other 54	24,865
Health care services	621–23	1,036
Other nonmanufacturing	23, 44–45 (excluding 454111–12), 55–56, 624, 71–72, 81	s

D = data withheld to avoid disclosing operations of individual companies; 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.