

TABLE 22

Domestic full-time equivalent R&D employees, by selected industry and occupation, for companies with 1–9 employees: 2019

(Number)

Industry	NAICS code	R&D employees: full-time equivalent	Researchers: full-time equivalent
All selected industries	31–33, 42, 51, 5413, 5415, 5417	31,532	22,711
Manufacturing industries	31–33	3,087	2,272
Food, beverage, and tobacco products	311–12	44	34
Textile, apparel, and leather products	313–16	3 r	3 r
Wood products	321	7 r	5 r
Paper	322	0	0
Printing and related support activities	323	5	5
Petroleum and coal products	324	0	0
Chemicals	325	711	580
Pharmaceuticals and medicines	3254	376	289
Chemicals, excluding pharmaceuticals	other 325	335	291
Plastics and rubber products	326	61	34
Nonmetallic mineral products	327	19 r	8 r
Primary metals	331	4 r	4 r
Fabricated metal products	332	67 r	63 r
Machinery	333	192	131
Computer and electronic products	334	1,265	878
Semiconductor and other electronic components	3344	214	126
Navigational, measuring, electromedical, and control instruments	3345	881	638
Other computer and electronic products	other 334	170	114
Electrical equipment, appliances, and components	335	82	70 r
Transportation equipment	336	178	125
Aerospace products and parts	3364	139	91
Other transportation equipment	other 336	39	34
Furniture and related products	337	0	0
Miscellaneous manufacturing	339	448	331
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	28,445	20,439
Wholesale trade	42	966	549
Information	51	4,899	3,510
Software publishers	5112	2,806	1,956
Information, excluding software publishers	51 less 5112	2,093	1,554
Architectural, engineering, and related services	5413	3,201	2,578
Computer systems design and related services	5415	10,523	6,842
Scientific research and development services	5417	8,856	6,961
Research and development in nanotechnology	541713	877	669
Research and development in biotechnology (except nanobiotechnology)	541714	2,648	2,069
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	5,150	4,096
Social sciences and humanities research and development	541720	165	111

r = relative standard error > 50%.

NAICS = 2017 North American Industry Classification System.

Note(s):

Detail may not add to total because of rounding. Statistics are representative of companies located in the United States that performed or funded R&D.

Source(s):

National Center for Science and Engineering Statistics and Census Bureau, 2020 Annual Business Survey: Data Year 2019.