

TABLE 18

Domestic R&D researchers with PhDs, by selected industry, for companies with 1–9 employees: 2022

(Number)

Industry	NAICS code	All researchers (including R&D scientists, engineers, and their managers)	Researchers with PhD (excluding MD, JD, and EdD)
All selected industries	31–33, 42, 51, 5413, 5415, 5417	25,769	7,290
Manufacturing industries	31–33	2,651	710
Food, beverage, and tobacco products	311–12	74	46
Textile, apparel, and leather products	313–16	36 r	16 r
Wood products	321	0	0
Paper	322	3 r	3 r
Printing and related support activities	323	0	0
Petroleum and coal products	324	0	0
Chemicals	325	519	236
Pharmaceuticals and medicines	3254	333	175
Chemicals, excluding pharmaceuticals	other 325	185	61
Plastics and rubber products	326	60	0
Nonmetallic mineral products	327	16	0
Primary metals	331	7	4 r
Fabricated metal products	332	116	23 r
Machinery	333	194	41
Computer and electronic products	334	965	215
Semiconductor and other electronic components	3344	212	77
Navigational, measuring, electromedical, and control instruments	3345	624	115
Other computer and electronic products	other 334	130	23
Electrical equipment, appliances, and components	335	107	17
Transportation equipment	336	175	16 r
Aerospace products and parts	3364	127	11 r
Other transportation equipment	other 336	49	5 r
Furniture and related products	337	2	0
Miscellaneous manufacturing	339	376	92
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	23,118	6,580
Wholesale trade	42	1,179	188
Information	51	3,287	534
Software publishers	5112	2,434	335
Information, excluding software publishers	51 less 5112	854	199
Architectural, engineering, and related services	5413	2,559	713
Computer systems design and related services	5415	8,422	1,102
Scientific research and development services	5417	7,672	4,043
Research and development in nanotechnology	541713	653	395
Research and development in biotechnology (except nanobiotechnology)	541714	2,554	1,617
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	4,325	1,982
Social sciences and humanities research and development	541720	140	48

r = relative standard error > 50%.

NAICS = 2017 North American Industry Classification System.

Note(s):

Detail across rows may not add to total because of rounding or unavailable NAICS detail for select records beyond the 4-digit industry classification. Detail across columns have been adjusted to add to total. Industry classification is based on dominant establishment payroll. 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, 2023 Annual Business Survey: Data Year 2022.