

Table 18. Domestic R&D researchers with PhDs, by selected industry, for companies with 1–9 employees: 2023

(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	28,934	7,895
Manufacturing industries	31–33	3,008	934
Food, beverage, and tobacco products	311–12	30	9
Textile, apparel, and leather products	313–16	0	0
Wood products	321	0	0
Paper	322	0	0
Printing and related support activities	323	2	0
Petroleum and coal products	324	0	0
Chemicals	325	883	389
Pharmaceuticals and medicines	3254	215	111
Chemicals, excluding pharmaceuticals	other 325	667	279
Plastics and rubber products	326	152	3
Nonmetallic mineral products	327	21	0
Primary metals	331	12	3
Fabricated metal products	332	25	16
Machinery	333	261	71
Computer and electronic products	334	1,275	344
Semiconductor and other electronic components	3344	334	158
Navigational, measuring, electromedical, and control instruments	3345	765	173
Other computer and electronic products	other 334	176	13
Electrical equipment, appliances, and components	335	109	8
Transportation equipment	336	37	8
Aerospace products and parts	3364	31	8
Other transportation equipment	other 336	6	0
Furniture and related products	337	2	0
Miscellaneous manufacturing	339	199	84
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	25,926	6,961
Wholesale trade	42	1,145	193
Information	51	5,332	609
Software publishers	5112	4,614	548
Information, excluding software publishers	51 less 5112	718	61
Architectural, engineering, and related services	5413	3,627	888
Computer systems design and related services	5415	8,190	965
Scientific research and development services	5417	7,632	4,305
Research and development in nanotechnology	541713	489	314
Research and development in biotechnology (except nanobiotechnology)	541714	2,637	1,716
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	4,439	2,251
Social sciences and humanities research and development	541720	67	24

r = relative standard error > 50%.

NAICS = 2022 North American Industry Classification System.

Note(s):

Detail may not add to total because of rounding or unavailable NAICS detail for select records beyond the 4-digit industry classification. 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, 2024 Annual Business Survey: Data Year 2023.