

TABLE 17

Domestic R&D researchers with PhDs, by selected industry, for companies with 1–9 employees: 2021

(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	28,417	7,358
Manufacturing industries	31–33	3,432	945
Food, beverage, and tobacco products	311–12	88 r	4
Textile, apparel, and leather products	313–16	11	0
Wood products	321	3	3
Paper	322	0	0
Printing and related support activities	323	0	0
Petroleum and coal products	324	9	1
Chemicals	325	387	175
Pharmaceuticals and medicines	3254	227	120
Chemicals, excluding pharmaceuticals	other 325	160	55
Plastics and rubber products	326	15	1
Nonmetallic mineral products	327	18	9 r
Primary metals	331	11 r	9 r
Fabricated metal products	332	57 r	2 r
Machinery	333	380	59
Computer and electronic products	334	1,414	367
Semiconductor and other electronic components	3344	329	127
Navigational, measuring, electromedical, and control instruments	3345	878	211
Other computer and electronic products	other 334	207	29
Electrical equipment, appliances, and components	335	204	42 r
Transportation equipment	336	146	17 r
Aerospace products and parts	3364	69	1
Other transportation equipment	other 336	77	16 r
Furniture and related products	337	3	0
Miscellaneous manufacturing	339	687	253
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	24,985	6,412
Wholesale trade	42	860	137
Information	51	3,954	630
Software publishers	5112	2,911	499
Information, excluding software publishers	51 less 5112	1,043	131
Architectural, engineering, and related services	5413	4,067	505
Computer systems design and related services	5415	8,364	936
Scientific research and development services	5417	7,740	4,204
Research and development in nanotechnology	541713	812	498
Research and development in biotechnology (except nanobiotechnology)	541714	2,355	1,504
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	4,474	2,171
Social sciences and humanities research and development	541720	91	27

r = relative standard error > 50%.

NAICS = 2017 North American Industry Classification System.

Note(s):

Detail may not add to total because of rounding. 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, 2022 Annual Business Survey: Data Year 2021.