

Table 5

## Domestic R&amp;D employees, by selected industry and sex, for companies with 1–9 employees: 2022

(Number)

Industry	NAICS code	Total	Male	Female	Researchers (including R&D scientists, engineers, and their managers)	R&D technicians and equivalent staff	R&D support staff (clerical and other)	Researchers with PhD (excluding MD, JD, and EdD)
All selected industries	31–33, 42, 51, 5413, 5415, 5417	36,324	28,469	7,855	25,769	7,962	2,593	7,290
Manufacturing industries	31–33	3,934	3,162	772	2,651	1,039	244	710
Food, beverage, and tobacco products	311–12	74	63	10 r	74	0	0	46
Textile, apparel, and leather products	313–16	43 r	43 r	0	36 r	7 r	0	16 r
Wood products	321	0	0	0	0	0	0	0
Paper	322	13 r	11 r	3 r	3 r	8 r	3 r	3 r
Printing and related support activities	323	0	0	0	0	0	0	0
Petroleum and coal products	324	2	2	0	0	0	2	0
Chemicals	325	690	483	207	519	136	35	236
Pharmaceuticals and medicines	3254	438	298	141	333	85	20	175
Chemicals, excluding pharmaceuticals	other 325	251	185	66	185	52	14	61
Plastics and rubber products	326	138	112	26 r	60	78	0	0
Nonmetallic mineral products	327	20	20	0	16	4	0	0
Primary metals	331	16	14	2	7	5	3	4 r
Fabricated metal products	332	166	166	0	116	27 r	23 r	23 r
Machinery	333	284	210	74	194	65	25	41
Computer and electronic products	334	1,496	1,233	263	965	420	110	215
Semiconductor and other electronic components	3344	348	277	71 r	212	101	34 r	77
Navigational, measuring, electromedical, and control instruments	3345	963	793	170	624	286	53	115
Other computer and electronic products	other 334	185	163	22	130	32	23	23
Electrical equipment, appliances, and components	335	162	137	25 r	107	48	7	17
Transportation equipment	336	271	235	36 r	175	85 r	11	16 r
Aerospace products and parts	3364	158	141	16	127	24	7	11 r
Other transportation equipment	other 336	113	94	19 r	49	61 r	4 r	5 r
Furniture and related products	337	2	2	0	2	0	0	0
Miscellaneous manufacturing	339	557	431	127	376	156	26	92
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	32,390	25,307	7,083	23,118	6,923	2,349	6,580
Wholesale trade	42	1,686	1,392	293	1,179	336	171	188
Information	51	5,079	4,169	910	3,287	1,422	370	534
Software publishers	5112	3,811	3,143	668	2,434	1,116	262	335
Information, excluding software publishers	51 less 5112	1,268	1,026	242	854	306	108	199
Architectural, engineering, and related services	5413	3,352	2,801	550	2,559	689	104	713
Computer systems design and related services	5415	12,167	10,048	2,119	8,422	2,761	984	1,102
Scientific research and development services	5417	10,107	6,896	3,210	7,672	1,715	720	4,043

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Research and development in nanotechnology	541713	866	624	242	653	144	69	395
Research and development in biotechnology (except nanobiotechnology)	541714	3,338	2,100	1,238	2,554	579	205	1,617
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	5,726	4,104	1,622	4,325	968	433	1,982
Social sciences and humanities research and development	541720	177	69	108	140	24	13	48

r = relative standard error &gt; 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.