

Table 6**Domestic R&D employees, by selected industry, sex, and R&D occupation and education, for companies with 1–9 employees: 2018**

(Number)

Industry	NAICS code	All R&D employees	Sex		R&D occupation and education			
			Male	Female	Researchers (including R&D scientists, engineers, and their managers)	Researchers with PhD (excluding MD, JD, and EdD)	R&D technicians and equivalent staff	R&D support staff (clerical and other)
All selected industries	31–33, 42, 51, 5413, 5415, 5417	30,951	24,353	6,598	21,526	6,454	6,954	2,471
Manufacturing industries	31–33	4,306	3,718	589	3,179	922	832	295
Food, beverage, and tobacco products	311–12	D	D	0	D	D	0	0
Textile, apparel, and leather products	313–16	13	10	D	10	0	D	0
Wood products	321	0	0	0	0	0	0	0
Paper	322	0	0	0	0	0	0	0
Printing and related support activities	323	D	D	0	D	D	0	0
Petroleum and coal products	324	D	D	D	D	0	D	0
Chemicals	325	602	407	195	390	212	148	64
Pharmaceuticals and medicines	3254	357	233	124	242	148	90	25
Chemicals, excluding pharmaceuticals	other 325	245	174	72	148	64	58	39
Plastics and rubber products	326	0	0	0	0	0	0	0
Nonmetallic mineral products	327	66 r	51 r	16 r	D	D	D	D
Primary metals	331	0	0	0	0	0	0	0
Fabricated metal products	332	47 r	36 r	D	D	0	D	D
Machinery	333	462	410	D	452	233 r	9	0
Computer and electronic products	334	2,330	2,093	237	1,727	355	477	126
Semiconductor and other electronic components	3344	535	481	53	397	98	126	11
Navigational, measuring, electromedical, and control instruments	3345	1,247	1,096	150	1,001	225	176	69 r
Other computer and electronic products	other 334	549	515	34	329	32	175	45
Electrical equipment, appliances, and components	335	291	276	14	233	34 r	39	19
Transportation equipment	336	110	100	10	84	12 r	15	11 r
Aerospace products and parts	3364	97	87	10	71	D	15	11 r
Other transportation equipment	other 336	D	D	0	D	D	0	0
Furniture and related products	337	0	0	0	0	0	0	0
Miscellaneous manufacturing	339	348	301	47	212	58	88	49
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	26,645	20,636	6,010	18,347	5,532	6,122	2,176
Wholesale trade	42	1,198	813	385	469	185	429	299
Information	51	4,576	3,913	663	2,966	394	1,108	502
Software publishers	5112	3,321	2,853	468	2,251	270	770	300
Information, excluding software publishers	51 excluding 5112	1,255	1,061	195	716	124	338	202
Architectural, engineering, and related services	5413	2,472	1,995	476	1,828	314	527	117
Computer systems design and related services	5415	9,658	7,928	1,730	6,414	726	2,515	730

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Scientific research and development services	5417	8,741	5,986	2,755	6,670	3,913	1,543	528
Research and development in nanotechnology	541713	1,705	1,273	432	1,356	722	251	98
Research and development in biotechnology (except nanobiotechnology)	541714	2,475	1,534	941	1,809	1,257	483	183
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	4,359	3,042	1,317	3,367	1,852	764	228
Social sciences and humanities research and development	541720	97	70	28	68	47	24	D

D = withheld to avoid disclosing data for individual companies; data are included in higher level totals. 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, 2019 Annual Business Survey: Data Year 2018.