

TABLE 16

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

(Number)

Industry	NAICS code	All R&D employees		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		21,526		6,454		6,954		2,471	
Manufacturing industries	31–33	4,306		3,179		922		832		295	
Food, beverage, and tobacco products	311–12	D		D		D		0		0	
Textile, apparel, and leather products	313–16	13		10		0		D		0	
Wood products	321	0		0		0		0		0	
Paper	322	0		0		0		0		0	
Printing and related support activities	323	D		D		D		0		0	
Petroleum and coal products	324	D		D		0		D		0	
Chemicals	325	602		390		212		148		64	
Pharmaceuticals and medicines	3254	357		242		148		90		25	
Chemicals, excluding pharmaceuticals	other 325	245		148		64		58		39	
Plastics and rubber products	326	0		0		0		0		0	
Nonmetallic mineral products	327	66 r		D		D		D		D	
Primary metals	331	0		0		0		0		0	
Fabricated metal products	332	47 r		D		0		D		D	
Machinery	333	462		452		233 r		9		0	
Computer and electronic products	334	2,330		1,727		355		477		126	
Semiconductor and other electronic components	3344	535		397		98		126		11	
Navigational, measuring, electromedical, and control instruments	3345	1,247		1,001		225		176		69 r	
Other computer and electronic products	other 334	549		329		32		175		45	
Electrical equipment, appliances, and components	335	291		233		34 r		39		19	
Transportation equipment	336	110		84		12 r		15		11 r	
Aerospace products and parts	3364	97		71		D		15		11 r	
Other transportation equipment	other 336	D		D		D		0		0	
Furniture and related products	337	0		0		0		0		0	
Miscellaneous manufacturing	339	348		212		58		88		49	
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	26,645		18,347		5,532		6,122		2,176	
Wholesale trade	42	1,198		469		185		429		299	
Information	51	4,576		2,966		394		1,108		502	
Software publishers	5112	3,321		2,251		270		770		300	
Information, excluding software publishers	51, excluding 5112	1,255		716		124		338		202	
Architectural, engineering, and related services	5413	2,472		1,828		314		527		117	
Computer systems design and related services	5415	9,658		6,414		726		2,515		730	
Scientific research and development services	5417	8,741		6,670		3,913		1,543		528	
Research and development in nanotechnology	541713	1,705		1,356		722		251		98	
Research and development in biotechnology (except nanobiotechnology)	541714	2,475		1,809		1,257		483		183	
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	4,359		3,367		1,852		764		228	
Social sciences and humanities research and development	541720	97		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. The Researchers with PhD category is a subset of the Researchers category.

Source(s):

National Center for Science and Engineering Statistics and Census Bureau, 2019 Annual Business Survey: Data Year 2018.