

TABLE 10-3

Domestic R&D performed by the company, by selected industry and type of R&D, for companies with 5–9 employees: 2018

(Thousands of U.S. dollars)

Industry	NAICS code	Total	Basic research	Applied research	Development
All selected industries	31–33, 42, 51, 5413, 5415, 5417	2,636,110	131,007	729,714	1,775,389
Manufacturing industries	31–33	323,702	33,215	87,498	202,988
Food, beverage, and tobacco products	311–12	0	0	0	0
Textile, apparel, and leather products	313–16	D	0	D	0
Wood products	321	0	0	0	0
Paper	322	0	0	0	0
Printing and related support activities	323	0	0	0	0
Petroleum and coal products	324	D	D	D	D
Chemicals	325	38,750	1,614 r	18,709	18,426
Pharmaceuticals and medicines	3254	31,377	1,199 r	16,559	13,618
Chemicals, excluding pharmaceuticals	other 325	7,373	415 r	2,150	4,808
Plastics and rubber products	326	0	0	0	0
Nonmetallic mineral products	327	D	D	D	D
Primary metals	331	0	0	0	0
Fabricated metal products	332	D	D	D	D
Machinery	333	23,410 r	6,320 r	8,101 r	8,990 r
Computer and electronic products	334	216,124	19,425 r	49,340	147,360
Semiconductor and other electronic components	3344	39,804	1,608 r	6,409	31,788 r
Navigational, measuring, electromedical, and control instruments	3345	145,591	16,789 r	36,504	92,298
Other computer and electronic products	other 334	30,729	1,028 r	6,427	23,274
Electrical equipment, appliances, and components	335	15,858	D	4,271 r	10,209
Transportation equipment	336	6,794	D	1,801	4,907 r
Aerospace products and parts	3364	6,337	D	1,344	4,907 r
Other transportation equipment	other 336	D	0	D	0
Furniture and related products	337	0	0	0	0
Miscellaneous manufacturing	339	15,775	3,858 r	2,909 r	9,008
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	2,312,408	97,791	642,216	1,572,400
Wholesale trade	42	111,545	6,132 r	27,390 r	78,023
Information	51	352,215	14,374	65,061	272,780
Software publishers	5112	251,241	10,899	46,652	193,690
Information, excluding software publishers	51, excluding 5112	100,975	3,475	18,409	79,090
Architectural, engineering, and related services	5413	183,744	6,866	42,346	134,532
Computer systems design and related services	5415	590,910	26,731	116,313	447,866
Scientific research and development services	5417	1,073,994	43,688	391,107	639,199
Research and development in nanotechnology	541713	173,194	5,672	68,464	99,058
Research and development in biotechnology (except nanobiotechnology)	541714	390,300	14,410	124,825	251,066
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	487,094	22,144	186,562	278,388
Social sciences and humanities research and development	541720	9,144	D	4,645	3,271

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 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, 2019 Annual Business Survey: Data Year 2018.