

TABLE 10-2

Domestic R&D performed by the company, by selected industry and type of R&D, for companies with 1–4 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	1,890,728	93,473	635,779	1,161,476
Manufacturing industries	31–33	231,973	16,317	93,085	122,571
Food, beverage, and tobacco products	311–12	D	0	D	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	D	0	D	D
Petroleum and coal products	324	0	0	0	0
Chemicals	325	47,522	2,770	14,566	30,185
Pharmaceuticals and medicines	3254	23,204	1,602	9,778	11,825
Chemicals, excluding pharmaceuticals	other 325	24,318	r 1,169	4,789	18,360
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	19,021	D	12,050	r 6,842
Computer and electronic products	334	87,587	7,129	r 44,007	36,451
Semiconductor and other electronic components	3344	17,009	336	11,769	4,904
Navigational, measuring, electromedical, and control instruments	3345	55,113	4,735	r 25,125	25,253
Other computer and electronic products	other 334	15,465	2,058	r 7,114	6,293
Electrical equipment, appliances, and components	335	12,096	653	r 3,342	8,101
Transportation equipment	336	6,185	D	1,790	r 4,225
Aerospace products and parts	3364	3,844	D	619	r 3,054
Other transportation equipment	other 336	D	0	D	D
Furniture and related products	337	0	0	0	0
Miscellaneous manufacturing	339	54,146	5,205	r 14,115	r 34,827
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	1,658,754	77,155	542,694	1,038,905
Wholesale trade	42	71,988	414	r 3,809	67,765
Information	51	165,875	11,112	40,259	114,504
Software publishers	5112	117,048	5,923	30,555	80,570
Information, excluding software publishers	51, excluding 5112	48,827	5,189	9,704	33,934
Architectural, engineering, and related services	5413	228,243	9,093	76,893	142,257
Computer systems design and related services	5415	446,671	30,581	121,604	294,485
Scientific research and development services	5417	745,978	25,955	300,129	419,894
Research and development in nanotechnology	541713	119,572	3,477	42,538	73,557
Research and development in biotechnology (except nanobiotechnology)	541714	266,279	7,737	102,932	155,610
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	354,602	14,710	151,382	188,511
Social sciences and humanities research and development	541720	2,864	0	1,986	877

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.