

TABLE 14

Domestic R&D performed by the company, by selected industry and type of R&D, for companies with 1–9 employees: 2019

(Thousands of U.S. dollars)

Industry	NAICS code	Total	Basic research	Applied research	Development
All selected industries	31–33, 42, 51, 5413, 5415, 5417	5,218,911	342,418	2,145,921	2,730,571
Manufacturing industries	31–33	622,220	17,647	298,567	306,007
Food, beverage, and tobacco products	311–12	5,896	747 r	2,704 r	2,445
Textile, apparel, and leather products	313–16	236 r	0	0	236 r
Wood products	321	4,065 r	0	3,252 r	813 r
Paper	322	0	0	0	0
Printing and related support activities	323	555	0	102 r	453
Petroleum and coal products	324	0	0	0	0
Chemicals	325	178,170	6,009	96,560	75,601
Pharmaceuticals and medicines	3254	117,508	2,745	67,870	46,893
Chemicals, excluding pharmaceuticals	other 325	60,661	3,264 r	28,689	28,708
Plastics and rubber products	326	6,261	372 r	5,124	765
Nonmetallic mineral products	327	5,860 r	0	2,994 r	2,866 r
Primary metals	331	2,353 r	526 r	316 r	1,511 r
Fabricated metal products	332	20,518 r	234 r	19,547 r	737 r
Machinery	333	22,057	870	11,013	10,174
Computer and electronic products	334	227,158	7,692	80,158	139,308
Semiconductor and other electronic components	3344	38,305	1,196	15,387	21,722
Navigational, measuring, electromedical, and control instruments	3345	161,373	5,902	52,551	102,921
Other computer and electronic products	other 334	27,480	595	12,219	14,666
Electrical equipment, appliances, and components	335	9,592	345	5,914	3,332
Transportation equipment	336	24,577	619	10,145	13,814
Aerospace products and parts	3364	11,859	510	5,145	6,204
Other transportation equipment	other 336	12,718 r	109 r	5,000 r	7,610 r
Furniture and related products	337	0	0	0	0
Miscellaneous manufacturing	339	114,922	234	60,737 r	53,951
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	4,596,691	324,772	1,847,354	2,424,565
Wholesale trade	42	225,813	14,236	89,756	121,821
Information	51	598,684	26,224	192,524	379,937
Software publishers	5112	327,921	16,796	109,666	201,459
Information, excluding software publishers	51 less 5112	270,764	9,428	82,858	178,478
Architectural, engineering, and related services	5413	454,913	17,817	221,370	215,725
Computer systems design and related services	5415	1,435,159	139,008	469,354	826,797
Scientific research and development services	5417	1,882,122	127,488	874,350	880,284
Research and development in nanotechnology	541713	175,639	6,239	99,116	70,284
Research and development in biotechnology (except nanobiotechnology)	541714	645,887	42,293	296,229	307,365
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	1,026,911	77,886	462,552	486,473
Social sciences and humanities research and development	541720	31,464	975	14,877	15,612 r

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, 2020 Annual Business Survey: Data Year 2019.