

TABLE 10

Domestic R&D performed by the company, by selected industry, for companies with 1–9 employees: 2018, 2019, and 2020

(Thousands of U.S. dollars)

Industry	NAICS code	2018	2019	2020
All selected industries	31–33, 42, 51, 5413, 5415, 5417	4,526,838	5,218,911	5,600,668
Manufacturing industries	31–33	555,676	622,220	627,387
Food, beverage, and tobacco products	311–12	D	5,896	9,614
Textile, apparel, and leather products	313–16	859 r	236 r	472 r
Wood products	321	0	4,065 r	0
Paper	322	0	0	0
Printing and related support activities	323	D	555	0
Petroleum and coal products	324	D	0	0
Chemicals	325	86,272	178,170	160,031
Pharmaceuticals and medicines	3,254	54,581	117,508	77,054
Chemicals, excluding pharmaceuticals	other 325	31,691	60,661	82,977
Plastics and rubber products	326	0	6,261	18,099
Nonmetallic mineral products	327	5,159 r	5,860 r	133
Primary metals	331	0	2,353 r	9,077 r
Fabricated metal products	332	2,465 r	20,518 r	37,292 r
Machinery	333	42,431	22,057	62,840
Computer and electronic products	334	303,711	227,158	189,225
Semiconductor and other electronic components	3,344	56,813	38,305	36,372
Navigational, measuring, electromedical, and control instruments	3,345	200,704	161,373	135,652
Other computer and electronic products	other 334	46,194	27,480	17,201
Electrical equipment, appliances, and components	335	27,954	9,592	24,958 r
Transportation equipment	336	12,979	24,577	38,247
Aerospace products and parts	3,364	10,181	11,859	19,307
Other transportation equipment	other 336	D	12,718 r	18,940 r
Furniture and related products	337	0	0	124
Miscellaneous manufacturing	339	69,921	114,922	77,276
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	3,971,162	4,596,691	4,973,281
Wholesale trade	42	183,533	225,813	392,416
Information	51	518,090	598,684	689,766
Software publishers	5,112	368,288	327,921	468,557
Information, excluding software publishers	51 less 5112	149,801	270,764	221,209
Architectural, engineering, and related services	5,413	411,987	454,913	574,367
Computer systems design and related services	5,415	1,037,581	1,435,159	1,122,622
Scientific research and development services	5,417	1,819,972	1,882,122	2,194,110
Research and development in nanotechnology	541,713	292,766	175,639	162,996
Research and development in biotechnology (except nanobiotechnology)	541,714	656,579	645,887	913,514

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Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541,715	841,697	1,026,911	1,099,371
Social sciences and humanities research and development	541,720	12,008	31,464	18,229

D = suppressed to ensure confidentiality of individual companies; 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, 2021 Annual Business Survey: Data Year 2020.