TABLE 11

Domestic R&D performed by the company, by selected industry, for companies with 1–9 employees: 2019–22 (Thousands of U.S. dollars)

Industry	NAICS code	2019	2020		2021		2022
	31-33, 42, 51, 5413, 5415,						
All selected industries	5417	5,218,911	5,600,668		6,124,669		5,710,570
Manufacturing industries	31-33	622,220	627,387		747,124	_	694,247
Food, beverage, and tobacco products	311-12	5,896	9,614		18,270		17,426
Textile, apparel, and leather products	313-16	236	472	r	7,096	r	9,268
Wood products	321	4,065	0		134		0
Paper	322	0	0		0		898
Printing and related support activities	323	555	0		0		0
Petroleum and coal products	324	0	0		739		159
Chemicals	325	178,170	160,031		132,255		168,564
Pharmaceuticals and medicines	3,254	117,508	77,054		96,666		125,474
Chemicals, excluding pharmaceuticals	other 325	60,661	82,977		35,589		43,090
Plastics and rubber products	326	6,261	18,099		6,427		14,467
Nonmetallic mineral products	327	5,860	133		3,638	r	3,608
Primary metals	331	2,353	9,077	r	2,117		3,214
Fabricated metal products	332	20,518	37,292	r	11,983	r	44,875
Machinery	333	22,057	62,840		64,109		44,334
Computer and electronic products	334	227,158	189,225		279,203		171,928
Semiconductor and other electronic components	3,344	38,305	36,372		71,280		46,427
Navigational, measuring, electromedical, and control instruments	3,345	161,373	135,652		164,799		94,814
Other computer and electronic products	other 334	27,480	17,201		43,124		30,686
Electrical equipment, appliances, and components	335	9,592	24,958	r	40,032		14,597
Transportation equipment	336	24,577	38,247		33,911		36,738
Aerospace products and parts	3,364	11,859	19,307		13,003		19,882
Other transportation equipment	other 336	12,718	18,940	r	20,908		16,856
Furniture and related products	337	0	124	Ė	1,471	r	212
Miscellaneous manufacturing	339	114,922	77,276		145,741	Ė	163,959
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	4,596,691	4,973,281		5,377,544		5,016,323
Wholesale trade	42	225,813	392,416		143,063		305,962
Information	51	598,684	689,766		756,657		653,665
Software publishers	5,112	327,921	468,557		535,950		478,466
Information, excluding software publishers	51 less 5112	270,764	221,209		220,707		175,199
Architectural, engineering, and related services	5,413	454,913	574,367		606,186		388,846
Computer systems design and related services		1,435,159	1,122,622		1,616,190		1,414,970
Scientific research and development services	·	1,882,122	2,194,110		2,255,449		2,252,879
Research and development in nanotechnology	541,713	175,639	162,996		172,582		137,272
Research and development in biotechnology (except nanobiotechnology)	541,714	645,887	913,514		868,580		1,010,361
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541,715	1,026,911	1,099,371		1,193,678		1,085,263
Social sciences and humanities research and development	541,720	31,464	18,229		12,047		19,984

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.

National Center for Science and Engineering Statistics | NSF 25-303

Source(s):
National Center for Science and Engineering Statistics and Census Bureau, 2023 Annual Business Survey: Data Year 2022.