

Table 5. Domestic R&D performed by the company, by selected industry and R&D program size, for companies with 1–9 employees: 2023

(Thousands of U.S. dollars)

Industry	NAICS code	R&D program size (total)							
		Total		\$50,000–\$99,999		\$100,000–\$499,999		\$500,000–\$999,999	\$1 million or more
All selected industries	31–33, 42, 51, 5413, 5415, 5417	5,943,753		217,590		1,806,103		1,414,493	2,505,567
Manufacturing industries	31–33	557,276		32,418		192,272		119,910	212,676
Food, beverage, and tobacco products	311–12	5,438		0		1,583		3,855	0
Textile, apparel, and leather products	313–16	5,748	r	131		5,617	r	0	0
Wood products	321	10,390	r	0		10,390	r	0	0
Paper	322	0		0		0		0	0
Printing and related support activities	323	91		91		0		0	0
Petroleum and coal products	324	0		0		0		0	0
Chemicals	325	171,118		5,764		28,767		21,145	115,441
Pharmaceuticals and medicines	3254	42,297		1,383	r	9,967		9,231	21,716
Chemicals, excluding pharmaceuticals	other 325	128,821	r	4,381	r	18,801		11,915	93,725
Plastics and rubber products	326	20,770	r	125		18,274	r	2,371	0
Nonmetallic mineral products	327	4,070		170		3,899	r	0	0
Primary metals	331	855		259	r	595		0	0
Fabricated metal products	332	6,362	r	260	r	4,910	r	1,193	0
Machinery	333	39,207		6,320		10,877		4,214	17,795
Computer and electronic products	334	216,085		14,549		68,594		74,806	58,135
Semiconductor and other electronic components	3344	58,730		4,129	r	25,511		5,888	23,201
Navigational, measuring, electromedical, and control instruments	3345	127,231		8,747		33,136		60,146	25,202
Other computer and electronic products	other 334	30,125		1,674		9,947		8,771	9,732
Electrical equipment, appliances, and components	335	16,905		2,087	r	6,773		3,307	4,738
Transportation equipment	336	14,188		703		4,150		2,416	6,920
Aerospace products and parts	3364	5,483		115		2,951	r	2,416	0
Other transportation equipment	other 336	8,706		587	r	1,199	r	0	6,920
Furniture and related products	337	293		55		238		0	0
Miscellaneous manufacturing	339	45,755		1,903		27,603		6,603	9,646
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	5,386,477		185,172		1,613,831		1,294,583	2,292,891
Wholesale trade	42	174,079		15,278		118,325		22,145	18,332
Information	51	912,856		19,867		287,634		270,674	334,681
Software publishers	5112	747,100		13,785		241,304		243,587	248,424
Information, excluding software publishers	51 less 5112	165,755		6,082		46,330		27,087	86,257
Architectural, engineering, and related services	5413	595,681		35,361		242,070		81,279	236,971
Computer systems design and related services	5415	1,556,103		91,853		605,973		474,940	383,337
Scientific research and development services	5417	2,147,759		22,814		359,830		445,546	1,319,569
Research and development in nanotechnology	541713	96,618		1,623		29,476		23,490	42,030
Research and development in biotechnology (except nanobiotechnology)	541714	883,444		5,613		100,582		178,988	598,262
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	1,155,371		14,584		228,486		238,981	673,319

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Social sciences and humanities research and development	541720	12,326		994	r	1,286	r	4,087	5,959

r = relative standard error > 50%.

NAICS = 2022 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, 2024 Annual Business Survey: Data Year 2023.