

TABLE 5

Domestic R&D performed by the company, by selected industry and R&D program size, for companies with 1–9 employees: 2021

(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	6,124,669	150,438	1,775,504	1,258,925	2,939,802
Manufacturing industries	31–33	747,124	19,513	225,094	167,527	334,991
Food, beverage, and tobacco products	311–12	18,270	119	12,011	3,644	2,495
Textile, apparel, and leather products	313–16	7,096	83	1,786	5,226	0
Wood products	321	134	134	0	0	0
Paper	322	0	0	0	0	0
Printing and related support activities	323	0	0	0	0	0
Petroleum and coal products	324	739	0	0	739	0
Chemicals	325	132,255	4,299	31,054	19,716	77,185
Pharmaceuticals and medicines	3254	96,666	1,180	11,470	13,745	70,271
Chemicals, excluding pharmaceuticals	other 325	35,589	3,119	19,584	5,972	6,914
Plastics and rubber products	326	6,427	537	661	2,653	2,576
Nonmetallic mineral products	327	3,638	73	1,293	2,271	0
Primary metals	331	2,117	561	1,556	0	0
Fabricated metal products	332	11,983	1,190	10,793	0	0
Machinery	333	64,109	375	35,254	6,359	22,121
Computer and electronic products	334	279,203	6,890	71,460	92,815	108,038
Semiconductor and other electronic components	3344	71,280	325	19,441	24,621	26,892
Navigational, measuring, electromedical, and control instruments	3345	164,799	5,594	31,504	50,656	77,044
Other computer and electronic products	other 334	43,124	970	20,515	17,537	4,101
Electrical equipment, appliances, and components	335	40,032	1,859	18,745	1,591	17,837
Transportation equipment	336	33,911	400	7,311	13,666	12,533
Aerospace products and parts	3364	13,003	400	3,453	3,157	5,993
Other transportation equipment	other 336	20,908	0	3,859	10,510	6,540
Furniture and related products	337	1,471	0	377	1,094	0
Miscellaneous manufacturing	339	145,741	2,992	32,792	17,751	92,205
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	5,377,544	130,925	1,550,410	1,091,398	2,604,812
Wholesale trade	42	143,063	11,323	57,491	6,703	67,545
Information	51	756,657	12,610	251,541	193,960	298,546
Software publishers	5112	535,950	10,012	174,840	153,661	197,436
Information, excluding software publishers	51 less 5112	220,707	2,598	76,700	40,298	101,110
Architectural, engineering, and related services	5413	606,186	23,035	227,052	240,997	115,102
Computer systems design and related services	5415	1,616,190	66,315	655,872	199,033	694,969
Scientific research and development services	5417	2,255,449	17,642	358,453	450,704	1,428,649
Research and development in nanotechnology	541713	172,582	1,418	42,990	70,412	57,762

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Research and development in biotechnology (except nanobiotechnology)	541714	868,580	5,531	95,409	130,587	637,052
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	1,193,678	10,692	211,775	245,938	725,274
Social sciences and humanities research and development	541720	12,047	0	8,279	3,768	0

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, 2022 Annual Business Survey: Data Year 2021.