

TABLE 5

Domestic R&D performed by the company, by selected industry and R&D program size, for companies with 1–9 employees: 2022

(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	5,710,570	134,574	1,478,119	1,339,054	2,758,823
Manufacturing industries	31–33	694,247	21,328	162,931	123,657	386,331
Food, beverage, and tobacco products	311–12	17,426	0	3,568 r	13,859 r	0
Textile, apparel, and leather products	313–16	9,268 r	0	1,264 r	0	8,005 r
Wood products	321	0	0	0	0	0
Paper	322	898 r	0	898 r	0	0
Printing and related support activities	323	0	0	0	0	0
Petroleum and coal products	324	159	0	159	0	0
Chemicals	325	168,564	1,118	24,368	29,915	113,163
Pharmaceuticals and medicines	3254	125,474	493	13,495	12,122	99,364
Chemicals, excluding pharmaceuticals	other 325	43,090	625	10,873	17,793	13,799
Plastics and rubber products	326	14,467	3,263 r	7,555 r	3,648 r	0
Nonmetallic mineral products	327	3,608	0	616 r	2,992	0
Primary metals	331	3,214	113	857 r	965	1,280
Fabricated metal products	332	44,875	618 r	9,924 r	13,887 r	20,446 r
Machinery	333	44,334	951 r	16,270	5,287 r	21,827 r
Computer and electronic products	334	171,928	11,757	58,717	31,567	69,888
Semiconductor and other electronic components	3344	46,427	1,754	12,895	15,026	16,752
Navigational, measuring, electromedical, and control instruments	3345	94,814	8,875	39,296	8,222	38,421
Other computer and electronic products	other 334	30,686	1,128	6,525	8,318	14,715
Electrical equipment, appliances, and components	335	14,597	1,877	7,448	0	5,272
Transportation equipment	336	36,738	327 r	6,328	9,241	20,842
Aerospace products and parts	3364	19,882	79	1,895	6,367 r	11,541 r
Other transportation equipment	other 336	16,856	248 r	4,433	2,873 r	9,301 r
Furniture and related products	337	212	0	212	0	0
Miscellaneous manufacturing	339	163,959	1,305	24,747	12,297	125,610
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	5,016,323	113,246	1,315,188	1,215,397	2,372,492
Wholesale trade	42	305,962	3,020	51,592	82,410	168,940
Information	51	653,665	17,733	229,446	202,500	203,986
Software publishers	5112	478,466	13,642	160,016	166,765	138,043
Information, excluding software publishers	51 less 5112	175,199	4,091	69,429	35,736	65,943
Architectural, engineering, and related services	5413	388,846	11,656	144,991	148,668	83,531 r
Computer systems design and related services	5415	1,414,970	60,543	554,929	354,784	444,714
Scientific research and development services	5417	2,252,879	20,294	334,230	427,034	1,471,321
Research and development in nanotechnology	541713	137,272	1,653	32,065	31,670	71,883

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Research and development in biotechnology (except nanobiotechnology)	541714	1,010,361	4,174	102,109	142,776	761,301
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	1,085,263	13,633	186,405	251,983	633,242
Social sciences and humanities research and development	541720	19,984	834	13,651	605	4,894

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, 2023 Annual Business Survey: Data Year 2022.