

TABLE 5

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

(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	5,600,668	166,611	1,701,839	1,323,573	2,408,646
Manufacturing industries	31–33	627,387	28,501	164,162	130,828	303,896
Food, beverage, and tobacco products	311–12	9,614	112	3,526 r	3,024 r	2,951 r
Textile, apparel, and leather products	313–16	472 r	0	472 r	0	0
Wood products	321	0	0	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	0	0	0	0	0
Chemicals	325	160,031	10,865	49,120	12,991	87,056
Pharmaceuticals and medicines	3254	77,054	847	18,248	7,654 r	50,306
Chemicals, excluding pharmaceuticals	other 325	82,977	10,018	30,872	5,337	36,750 r
Plastics and rubber products	326	18,099	1,817 r	3,434	5,988	6,860 r
Nonmetallic mineral products	327	133	133	0	0	0
Primary metals	331	9,077 r	75	1,285	0	7,717 r
Fabricated metal products	332	37,292 r	372	2,832 r	0	34,088 r
Machinery	333	62,840	851	20,219	19,572 r	22,197 r
Computer and electronic products	334	189,225	12,393	52,027	66,881	57,924 r
Semiconductor and other electronic components	3344	36,372	3,418	12,771	7,350	12,834
Navigational, measuring, electromedical, and control instruments	3345	135,652	7,517	27,816	55,980	44,339 r
Other computer and electronic products	other 334	17,201	1,458	11,439	3,552	752
Electrical equipment, appliances, and components	335	24,958 r	562 r	10,068	2,642 r	11,685 r
Transportation equipment	336	38,247	487	7,108	10,060	20,592 r
Aerospace products and parts	3364	19,307	149	6,244	4,955	7,958 r
Other transportation equipment	other 336	18,940 r	337	864	5,105 r	12,634 r
Furniture and related products	337	124	124	0	0	0
Miscellaneous manufacturing	339	77,276	709	14,072	9,670	52,825 r
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	4,973,281	138,109	1,537,676	1,192,746	2,104,750
Wholesale trade	42	392,416	1,893 r	106,228	104,434 r	179,861 r
Information	51	689,766	20,873	322,717	166,512	179,664
Software publishers	5112	468,557	13,561	224,934	85,549	144,513 r
Information, excluding software publishers	51 less 5112	221,209	7,312	97,783	80,963	35,151
Architectural, engineering, and related services	5413	574,367	24,060	217,640	154,471	178,195 r
Computer systems design and related services	5415	1,122,622	72,789	566,725	295,386	187,722
Scientific research and development services	5417	2,194,110	18,493	324,366	471,943	1,379,307

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Research and development in nanotechnology	541713	162,996	1,803	36,807	48,614	75,771
Research and development in biotechnology (except nanobiotechnology)	541714	913,514	5,804	86,365	160,507	660,838
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	1,099,371	10,421	196,602	258,666	633,682
Social sciences and humanities research and development	541720	18,229	465 r	4,593	4,156	9,015

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.