

TABLE 4

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

(Number of companies and thousands of U.S. dollars)

Industry	NAICS code	All companies		1–4 employees		5–9 employees	
		Companies (number)	Amount	Companies (number)	Amount	Companies (number)	Amount
All selected industries	31–33, 42, 51, 5413, 5415, 5417	15,391	5,600,668	9,892	2,514,365	5,501	3,086,303
Manufacturing industries	31–33	1,913	627,387	967	248,622	946	378,765
Food, beverage, and tobacco products	311–12	52	9,614	41 r	6,031	11	3,583 r
Textile, apparel, and leather products	313–16	3 r	472 r	3 r	472 r	0	0
Wood products	321	0	0	0	0	0	0
Paper	322	0	0	0	0	0	0
Printing and related support activities	323	0	0	0	0	0	0
Petroleum and coal products	324	0	0	0	0	0	0
Chemicals	325	576	160,031	255	69,046	322	90,985
Pharmaceuticals and medicines	3254	147	77,054	95	42,655	50	34,399
Chemicals, excluding pharmaceuticals	other 325	431	82,977	159	26,391	270	56,586
Plastics and rubber products	326	68	18,099	30	13,367	39 r	4,732
Nonmetallic mineral products	327	0	133	0	133	0	0
Primary metals	331	13	9,077 r	13	9,077 r	0	0
Fabricated metal products	332	56 r	37,292 r	8	372	47 r	36,920 r
Machinery	333	192	62,840	101	21,617 r	91	41,223
Computer and electronic products	334	672	189,225	372	77,423	300	111,802
Semiconductor and other electronic components	3344	150	36,372	87	20,311	64	16,061
Navigational, measuring, electromedical, and control instruments	3345	430	135,652	242	48,512	188	87,140
Other computer and electronic products	other 334	92	17,201	43	8,600	48	8,601
Electrical equipment, appliances, and components	335	78	24,958 r	56	21,423 r	24 r	3,534 r
Transportation equipment	336	74	38,247	32	11,415	41	26,832
Aerospace products and parts	3364	45	19,307	23	10,387 r	21	8,920
Other transportation equipment	other 336	30	18,940 r	10	1,028	20	17,912 r
Furniture and related products	337	2	124	0	0	2	124
Miscellaneous manufacturing	339	126	77,276	57	18,247	68	59,029 r
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	13,479	4,973,281	8,926	2,265,743	4,554	2,707,538
Wholesale trade	42	877	392,416	521	160,563	354	231,853
Information	51	2,488	689,766	1,525	287,570	963	402,196
Software publishers	5112	1,676	468,557	1,061	186,214	614	282,343
Information, excluding software publishers	51 less 5112	813	221,209	465	101,356	349	119,853
Architectural, engineering, and related services	5413	1,680	574,367	1,152	245,934	527	328,433
Computer systems design and related services	5415	5,062	1,122,622	3,642	654,456	1,419	468,166
Scientific research and development services	5417	3,373	2,194,110	2,084	917,220	1,290	1,276,890

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Research and development in nanotechnology	541713	339	162,996	202	70,143	136	92,853
Research and development in biotechnology (except nanobiotechnology)	541714	1,109	913,514	697	384,226	411	529,288
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	1,885	1,099,371	1,151	455,354	733	644,017
Social sciences and humanities research and development	541720	42	18,229	32	7,498	10	10,731

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.