

TABLE 7-2

Domestic R&D performed by the company, by selected industry and R&D program size, for companies with 1–4 employees: 2018

(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	1,890,728	121,245	791,474	502,084	475,925
Manufacturing industries	31–33	231,973	15,317	92,074	51,599	72,984
Food, beverage, and tobacco products	311–12	D	0	D	0	0
Textile, apparel, and leather products	313–16	D	D	D	0	0
Wood products	321	0	0	0	0	0
Paper	322	0	0	0	0	0
Printing and related support activities	323	D	0	D	0	0
Petroleum and coal products	324	0	0	0	0	0
Chemicals	325	47,522	3,170	7,960	6,491	29,900
Pharmaceuticals and medicines	3254	23,204	1,594	5,066	6,491	10,053
Chemicals, excluding pharmaceuticals	other 325	24,318 r	1,576 r	2,894	0	D
Plastics and rubber products	326	0	0	0	0	0
Nonmetallic mineral products	327	D	0	D	0	0
Primary metals	331	0	0	0	0	0
Fabricated metal products	332	D	D	D	0	0
Machinery	333	19,021	D	8,365 r	D	0
Computer and electronic products	334	87,587	7,990	41,387	17,507	20,703
Semiconductor and other electronic components	3344	17,009	788	8,999	0	D
Navigational, measuring, electromedical, and control instruments	3345	55,113	5,274	21,775	14,582 r	13,482 r
Other computer and electronic products	other 334	15,465	1,927	10,613	D	0
Electrical equipment, appliances, and components	335	12,096	1,474 r	10,622	0	0
Transportation equipment	336	6,185	730 r	3,269 r	D	0
Aerospace products and parts	3364	3,844	730 r	D	D	0
Other transportation equipment	other 336	D	0	D	0	0
Furniture and related products	337	0	0	0	0	0
Miscellaneous manufacturing	339	54,146	623	15,545 r	15,598 r	22,380
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	1,658,754	105,928	699,400	450,485	402,941
Wholesale trade	42	71,988	D	35,543 r	D	D
Information	51	165,875	16,693	79,910	28,045	41,227
Software publishers	5112	117,048	12,168	48,459	15,194	41,227
Information, excluding software publishers	51, excluding 5112	48,827	4,525	31,450	12,852	0
Architectural, engineering, and related services	5413	228,243	7,940	112,014	91,640	16,648 r
Computer systems design and related services	5415	446,671	63,350	275,377	88,353	19,591
Scientific research and development services	5417	745,978	17,126	196,557	209,993	322,302
Research and development in nanotechnology	541713	119,572	3,497	38,419	46,640 r	31,015
Research and development in biotechnology (except nanobiotechnology)	541714	266,279	4,144	42,797	56,855	162,483
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	354,602	8,762	111,573	105,464	128,804
Social sciences and humanities research and development	541720	2,864	D	2,597	0	0

D = withheld to avoid disclosing data for individual companies; data are included in higher-level totals. 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, 2019 Annual Business Survey: Data Year 2018.