

TABLE 10

Domestic R&D performed by the company, by selected industry and R&D program size, for companies with 1–9 employees: 2019

(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	5,218,911	179,252	1,618,763	1,299,623	2,121,272
Manufacturing industries	31–33	622,220	25,172	155,351	112,210	329,487
Food, beverage, and tobacco products	311–12	5,896	336 r	5,560 r	0	0
Textile, apparel, and leather products	313–16	236 r	236 r	0	0	0
Wood products	321	4,065 r	0	0	0	4,065 r
Paper	322	0	0	0	0	0
Printing and related support activities	323	555	141 r	414	0	0
Petroleum and coal products	324	0	0	0	0	0
Chemicals	325	178,170	3,978	26,067	22,576	125,549
Pharmaceuticals and medicines	3254	117,508	938	17,960	5,311	93,299
Chemicals, excluding pharmaceuticals	other 325	60,661	3,039 r	8,107	17,266	32,249
Plastics and rubber products	326	6,261	764 r	1,511 r	3,986 r	0
Nonmetallic mineral products	327	5,860 r	0	216	0	5,644 r
Primary metals	331	2,353 r	0	0	2,353 r	0
Fabricated metal products	332	20,518 r	0	11,854 r	0	8,664 r
Machinery	333	22,057	2,573 r	11,070	2,617 r	5,797
Computer and electronic products	334	227,158	14,282	71,341	59,343	82,192
Semiconductor and other electronic components	3344	38,305	1,673	13,480	13,974	9,177 r
Navigational, measuring, electromedical, and control instruments	3345	161,373	11,103	48,921	41,344	60,006
Other computer and electronic products	other 334	27,480	1,506	8,940	4,025	13,009 r
Electrical equipment, appliances, and components	335	9,592	1,140 r	7,738 r	714	0
Transportation equipment	336	24,577	532	5,700	5,960	12,386 r
Aerospace products and parts	3364	11,859	463	4,569	5,529	1,297
Other transportation equipment	other 336	12,718 r	69	1,130 r	430	11,089 r
Furniture and related products	337	0	0	0	0	0
Miscellaneous manufacturing	339	114,922	1,189 r	13,881	14,662	85,189 r
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	4,596,691	154,080	1,463,412	1,187,413	1,791,785
Wholesale trade	42	225,813	0	76,002	54,985 r	94,826 r
Information	51	598,684	28,324	221,203	293,653	55,505 r
Software publishers	5112	327,921	21,415	144,271	137,622	24,614 r
Information, excluding software publishers	51 less 5112	270,764	6,909	76,932	156,031	30,891 r
Architectural, engineering, and related services	5413	454,913	28,822	194,774	150,096	81,220
Computer systems design and related services	5415	1,435,159	73,433	648,497	305,885	407,345
Scientific research and development services	5417	1,882,122	23,502	322,937	382,794	1,152,888

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Research and development in nanotechnology	541713	175,639	1,829	33,684	27,343	112,784
Research and development in biotechnology (except nanobiotechnology)	541714	645,887	4,919	106,207	111,098	423,663
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	1,026,911	15,582	175,647	232,529	603,153
Social sciences and humanities research and development	541720	31,464	986	5,365	11,825	13,288

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, 2020 Annual Business Survey: Data Year 2019.