

TABLE 13

Domestic R&D performed by the company and funded by the federal government, by selected industry and employment size, for companies with R&D expenditures and 1–9 employees: 2019

(Number 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	15,401	712,053	9,774	276,329	5,627	435,723
Manufacturing industries	31–33	1,659	53,506	945	23,358	715	30,149
Food, beverage, and tobacco products	311–12	29	71 r	16 r	71 r	13	0
Textile, apparel, and leather products	313–16	3 r	0	3 r	0	0	0
Wood products	321	2 r	0	0	0	2 r	0
Paper	322	0	0	0	0	0	0
Printing and related support activities	323	4	0	2 r	0	2	0
Petroleum and coal products	324	0	0	0	0	0	0
Chemicals	325	374	25,452	261	7,626	114	17,827 r
Pharmaceuticals and medicines	3254	165	14,493	106	6,351	59	8,142 r
Chemicals, excluding pharmaceuticals	other 325	210	10,959 r	155	1,274	55	9,685 r
Plastics and rubber products	326	21	69	12	69	10	0
Nonmetallic mineral products	327	4 r	0	0	0	4 r	0
Primary metals	331	4 r	0	4 r	0	0	0
Fabricated metal products	332	57 r	0	13	0	44 r	0
Machinery	333	129	4,379	74	2,879	55	1,500
Computer and electronic products	334	710	17,494	401	7,892	308	9,603
Semiconductor and other electronic components	3344	130	3,920	78	2,439	51	1,481 r
Navigational, measuring, electromedical, and control instruments	3345	502	12,043	296	4,644	207	7,399
Other computer and electronic products	other 334	78	1,531	29	808	50	723
Electrical equipment, appliances, and components	335	50	2,622	26 r	1,958 r	25	664 r
Transportation equipment	336	70	1,520	43	965 r	27	555
Aerospace products and parts	3364	53	1,236 r	29	965 r	23	271
Other transportation equipment	other 336	16	285 r	14	0	2 r	285 r
Furniture and related products	337	0	0	0	0	0	0
Miscellaneous manufacturing	339	203	1,900 r	90	1,900 r	113	0
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	13,744	658,546	8,829	252,972	4,914	405,575
Wholesale trade	42	525	524 r	281	0	243	524 r
Information	51	2,252	10,136	1,239	5,541	1,013	4,595
Software publishers	5112	1,459	8,610	856	4,680	604	3,931
Information, excluding software publishers	51 less 5112	794	1,526	382	861 r	411	664 r
Architectural, engineering, and related services	5413	1,711	70,383	1,297	33,473	414	36,909
Computer systems design and related services	5415	5,918	52,124	3,987	26,736 r	1,931	25,388 r
Scientific research and development services	5417	3,338	525,380	2,027	187,222	1,312	338,158

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Research and development in nanotechnology	541713	326	26,345	220	17,180	107	9,165
Research and development in biotechnology (except nanobiotechnology)	541714	1,060	120,789	669	50,382	392	70,406
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	1,867	369,150	1,081	112,856	786	256,294
Social sciences and humanities research and development	541720	73	9,096	45	6,803	27	2,293

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.