

TABLE 7

Domestic R&D performed by the company, 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	14,878	5,218,911	9,384	2,350,322	5,495	2,868,589
Manufacturing industries	31–33	1,573	622,220	877	271,171	697	351,049
Food, beverage, and tobacco products	311–12	29	5,896	16 r	4,038 r	13	1,858 r
Textile, apparel, and leather products	313–16	3 r	236 r	3 r	236 r	0	0
Wood products	321	2 r	4,065 r	0	0	2 r	4,065 r
Paper	322	0	0	0	0	0	0
Printing and related support activities	323	4	555	2 r	141 r	2	414
Petroleum and coal products	324	0	0	0	0	0	0
Chemicals	325	321	178,170	212	87,050	110	91,119
Pharmaceuticals and medicines	3254	163	117,508	105	56,251	57	61,258
Chemicals, excluding pharmaceuticals	other 325	159	60,661	106	30,800	52	29,862
Plastics and rubber products	326	21	6,261	12	3,204	10	3,057 r
Nonmetallic mineral products	327	4 r	5,860 r	0	216	4 r	5,644 r
Primary metals	331	4 r	2,353 r	4 r	2,353 r	0	0
Fabricated metal products	332	57 r	20,518 r	13	9,874 r	44 r	10,644 r
Machinery	333	121	22,057	67	12,952	53	9,105
Computer and electronic products	334	701	227,158	394	102,331	306	124,827
Semiconductor and other electronic components	3344	130	38,305	78	21,093	51	17,212
Navigational, measuring, electromedical, and control instruments	3345	495	161,373	291	76,986	205	84,388
Other computer and electronic products	other 334	77	27,480	27	4,252 r	50	23,228 r
Electrical equipment, appliances, and components	335	48	9,592	26 r	6,210 r	23 r	3,382
Transportation equipment	336	68	24,577	41	18,393	26	6,185
Aerospace products and parts	3364	52	11,859	30	6,673	23	5,185
Other transportation equipment	other 336	16	12,718 r	14	11,719 r	2 r	999
Furniture and related products	337	0	0	0	0	0	0
Miscellaneous manufacturing	339	189	114,922	84	24,172	104	90,749 r
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	13,307	4,596,691	8,507	2,079,151	4,800	2,517,540
Wholesale trade	42	520	225,813	276	82,960	243	142,853 r
Information	51	2,190	598,684	1,211	269,355	979	329,329
Software publishers	5112	1,413	327,921	840	178,911	573	149,010
Information, excluding software publishers	51 less 5112	778	270,764	371	90,445	406	180,319
Architectural, engineering, and related services	5413	1,689	454,913	1,280	280,469	409	174,443
Computer systems design and related services	5415	5,656	1,435,159	3,768	702,687	1,888	732,473
Scientific research and development services	5417	3,252	1,882,122	1,973	743,679	1,280	1,138,442

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Research and development in nanotechnology	541713	326	175,639	220	86,246	107	89,393
Research and development in biotechnology (except nanobiotechnology)	541714	1,018	645,887	632	261,812	385	384,074
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	1,832	1,026,911	1,067	383,781	764	643,130
Social sciences and humanities research and development	541720	65	31,464	42	9,619	23	21,845

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.