

TABLE 9

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

(Thousands of U.S. dollars)

Industry	NAICS code	Total	Basic research	Applied research	Development
All selected industries	31–33, 42, 51, 5413, 5415, 5417	5,600,668	353,143	2,282,934	2,964,591
Manufacturing industries	31–33	627,387	36,251	247,837	343,299
Food, beverage, and tobacco products	311–12	9,614	298	5,022	4,293
Textile, apparel, and leather products	313–16	472	27	0	445
Wood products	321	0	0	0	0
Paper	322	0	0	0	0
Printing and related support activities	323	0	0	0	0
Petroleum and coal products	324	0	0	0	0
Chemicals	325	160,031	11,536	90,771	57,724
Pharmaceuticals and medicines	3254	77,054	5,179	41,866	30,009
Chemicals, excluding pharmaceuticals	other 325	82,977	6,358	48,904	27,715
Plastics and rubber products	326	18,099	545	8,616	8,938
Nonmetallic mineral products	327	133	0	0	133
Primary metals	331	9,077	0	1,956	7,121
Fabricated metal products	332	37,292	218	447	36,627
Machinery	333	62,840	5,305	22,287	35,248
Computer and electronic products	334	189,225	11,993	86,219	91,014
Semiconductor and other electronic components	3344	36,372	4,465	13,785	18,122
Navigational, measuring, electromedical, and control instruments	3345	135,652	6,494	65,204	63,954
Other computer and electronic products	other 334	17,201	1,034	7,230	8,937
Electrical equipment, appliances, and components	335	24,958	320	5,725	18,912
Transportation equipment	336	38,247	4,292	15,128	18,827
Aerospace products and parts	3364	19,307	579	10,968	7,760
Other transportation equipment	other 336	18,940	3,714	4,160	11,067
Furniture and related products	337	124	41	41	41
Miscellaneous manufacturing	339	77,276	1,676	11,624	63,976
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	4,973,281	316,892	2,035,097	2,621,292
Wholesale trade	42	392,416	25,088	226,630	140,698
Information	51	689,766	34,648	205,391	449,726
Software publishers	5112	468,557	24,175	144,800	299,582
Information, excluding software publishers	51 less 5112	221,209	10,474	60,591	150,144
Architectural, engineering, and related services	5413	574,367	24,714	237,752	311,900
Computer systems design and related services	5415	1,122,622	118,121	348,258	656,243
Scientific research and development services	5417	2,194,110	114,321	1,017,065	1,062,724
Research and development in nanotechnology	541713	162,996	18,309	82,162	62,525

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Research and development in biotechnology (except nanobiotechnology)	541714	913,514	31,951	425,572	455,991
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	1,099,371	62,081	501,329	535,961
Social sciences and humanities research and development	541720	18,229	1,980 r	8,003	8,247

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.