

TABLE 9

Domestic R&D performed by the company, by selected industry and type of R&D, for companies with 1–9 employees: 2022

(Thousands of U.S. dollars)

Industry	NAICS code	Total	Basic research	Applied research	Development
All selected industries	31–33, 42, 51, 5413, 5415, 5417	5,710,570	397,004	2,032,893	3,280,674
Manufacturing industries	31–33	694,247	34,705	275,018	384,524
Food, beverage, and tobacco products	311–12	17,426	1,410 r	13,400	2,616 r
Textile, apparel, and leather products	313–16	9,268 r	602 r	2,002 r	6,665 r
Wood products	321	0	0	0	0
Paper	322	898 r	0	134 r	764 r
Printing and related support activities	323	0	0	0	0
Petroleum and coal products	324	159	0	159	0
Chemicals	325	168,564	11,202	54,145	103,217
Pharmaceuticals and medicines	3254	125,474	4,688	34,497	86,290
Chemicals, excluding pharmaceuticals	other 325	43,090	6,514	19,648	16,928
Plastics and rubber products	326	14,467	716	8,600 r	5,151
Nonmetallic mineral products	327	3,608	270	1,881 r	1,458
Primary metals	331	3,214	30	498	2,685
Fabricated metal products	332	44,875	0	13,255 r	31,620 r
Machinery	333	44,334	345 r	21,497 r	22,492
Computer and electronic products	334	171,928	8,612	61,998	101,318
Semiconductor and other electronic components	3344	46,427	2,787	17,496	26,144
Navigational, measuring, electromedical, and control instruments	3345	94,814	5,134	32,794	56,887
Other computer and electronic products	other 334	30,686	692 r	11,708	18,287
Electrical equipment, appliances, and components	335	14,597	743	7,739	6,114
Transportation equipment	336	36,738	158	13,379 r	23,201
Aerospace products and parts	3364	19,882	96	13,317 r	6,470
Other transportation equipment	other 336	16,856	62	62	16,731
Furniture and related products	337	212	0	212	0
Miscellaneous manufacturing	339	163,959	10,617 r	76,119	77,222
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	5,016,323	362,299	1,757,875	2,896,149
Wholesale trade	42	305,962	18,266	100,466	187,230
Information	51	653,665	49,958	204,326	399,382
Software publishers	5112	478,466	33,197	145,099	300,170
Information, excluding software publishers	51 less 5112	175,199	16,761	59,226	99,212
Architectural, engineering, and related services	5413	388,846	22,921	144,876	221,049
Computer systems design and related services	5415	1,414,970	102,039	371,904	941,028
Scientific research and development services	5417	2,252,879	169,115	936,304	1,147,461
Research and development in nanotechnology	541713	137,272	12,847	47,776	76,649
Research and development in biotechnology (except nanobiotechnology)	541714	1,010,361	62,507	403,151	544,702
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	1,085,263	90,235	475,771	519,256
Social sciences and humanities research and development	541720	19,984	3,526	9,605	6,853

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, 2023 Annual Business Survey: Data Year 2022.