

Table 9. Domestic R&D performed by the company, by selected industry and type of R&D, for companies with 1–9 employees: 2023

(Thousands of U.S. dollars)

Industry	NAICS code	Total	Basic research	Applied research	Development
All selected industries	31–33, 42, 51, 5413, 5415, 5417	5,943,753	654,970	1,936,389	3,352,394
Manufacturing industries	31–33	557,276	40,778	263,086	253,412
Food, beverage, and tobacco products	311–12	5,438	149	2,207	3,082 r
Textile, apparel, and leather products	313–16	5,748 r	2,896 r	0	2,852 r
Wood products	321	10,390 r	1,330 r	2,659 r	6,401 r
Paper	322	0	0	0	0
Printing and related support activities	323	91	0	45	45
Petroleum and coal products	324	0	0	0	0
Chemicals	325	171,118	9,225	110,763 r	51,130
Pharmaceuticals and medicines	3254	42,297	1,781	14,863	25,653
Chemicals, excluding pharmaceuticals	other 325	128,821 r	7,444	95,900 r	25,477
Plastics and rubber products	326	20,770 r	422 r	90	20,257 r
Nonmetallic mineral products	327	4,070	513 r	713	2,844 r
Primary metals	331	855	0	356	498
Fabricated metal products	332	6,362 r	1,962 r	1,691 r	2,710
Machinery	333	39,207	2,957	15,085	21,165
Computer and electronic products	334	216,085	14,147	97,134	104,803
Semiconductor and other electronic components	3344	58,730	4,178 r	29,397	25,154
Navigational, measuring, electromedical, and control instruments	3345	127,231	5,374	61,946 r	59,911
Other computer and electronic products	other 334	30,125	4,595 r	5,791	19,739
Electrical equipment, appliances, and components	335	16,905	1,709	5,360	9,836
Transportation equipment	336	14,188	1,214	5,555	7,420
Aerospace products and parts	3364	5,483	772 r	1,832	2,878
Other transportation equipment	other 336	8,706	442	3,722	4,541
Furniture and related products	337	293	0	55	238
Miscellaneous manufacturing	339	45,755	4,253	21,373	20,130
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	5,386,477	614,192	1,673,303	3,098,982
Wholesale trade	42	174,079	17,192	47,497	109,390
Information	51	912,856	115,012	235,753	562,091
Software publishers	5112	747,100	77,161	191,509	478,430
Information, excluding software publishers	51 less 5112	165,755	37,851 r	44,244	83,660
Architectural, engineering, and related services	5413	595,681	48,135	257,453	290,093
Computer systems design and related services	5415	1,556,103	179,177	373,309	1,003,616
Scientific research and development services	5417	2,147,759	254,676	759,291	1,133,792
Research and development in nanotechnology	541713	96,618	9,366	44,949	42,303
Research and development in biotechnology (except nanobiotechnology)	541714	883,444	104,259	278,488	500,697
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	1,155,371	138,738	430,737	585,896
Social sciences and humanities research and development	541720	12,326	2,312 r	5,117	4,896

r = relative standard error > 50%.

NAICS = 2022 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, 2024 Annual Business Survey: Data Year 2023.