

TABLE 9

Domestic R&D performed by the company, by selected industry and type of R&D, for companies with 1–9 employees: 2021

(Thousands of U.S. dollars)

Industry	NAICS code	Total	Basic research	Applied research	Development
All selected industries	31–33, 42, 51, 5413, 5415, 5417	6,124,669	715,225	2,221,924	3,187,520
Manufacturing industries	31–33	747,124	59,635	275,850	411,640
Food, beverage, and tobacco products	311–12	18,270 r	704	3,942	13,624 r
Textile, apparel, and leather products	313–16	7,096 r	1,425 r	1,980 r	3,691 r
Wood products	321	134	14	21	99
Paper	322	0	0	0	0
Printing and related support activities	323	0	0	0	0
Petroleum and coal products	324	739	0	148	592
Chemicals	325	132,255	14,608	52,897	64,750
Pharmaceuticals and medicines	3254	96,666	11,004	38,762	46,899
Chemicals, excluding pharmaceuticals	other 325	35,589	3,604	14,135	17,850
Plastics and rubber products	326	6,427	204	3,787	2,436 r
Nonmetallic mineral products	327	3,638 r	2,236 r	811 r	590
Primary metals	331	2,117	295	806 r	1,016 r
Fabricated metal products	332	11,983 r	3,864 r	3,509 r	4,609 r
Machinery	333	64,109	4,914	18,164	41,031
Computer and electronic products	334	279,203	21,513	87,924	169,765
Semiconductor and other electronic components	3344	71,280	8,498	29,458	33,324
Navigational, measuring, electromedical, and control instruments	3345	164,799	10,675	46,797	107,327
Other computer and electronic products	other 334	43,124	2,340	11,670	29,114
Electrical equipment, appliances, and components	335	40,032	1,809 r	16,157	22,065
Transportation equipment	336	33,911	1,208 r	6,696	26,007
Aerospace products and parts	3364	13,003	266	4,607	8,130
Other transportation equipment	other 336	20,908	942 r	2,090 r	17,876
Furniture and related products	337	1,471 r	0	559	912 r
Miscellaneous manufacturing	339	145,741	6,841	78,446 r	60,454
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	5,377,544	655,590	1,946,074	2,775,881
Wholesale trade	42	143,063	20,107 r	49,941	73,015
Information	51	756,657	80,314	217,708	458,635
Software publishers	5112	535,950	62,233	164,325	309,391
Information, excluding software publishers	51 less 5112	220,707	18,080	53,383	149,244
Architectural, engineering, and related services	5413	606,186	75,293	155,913	374,980
Computer systems design and related services	5415	1,616,190	170,785	595,870	849,535
Scientific research and development services	5417	2,255,449	309,092	926,641	1,019,716
Research and development in nanotechnology	541713	172,582	27,987	73,792	70,804
Research and development in biotechnology (except nanobiotechnology)	541714	868,580	146,062	308,060	414,458
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	1,193,678	133,318	538,713	521,647
Social sciences and humanities research and development	541720	12,047	1,725	6,076	4,246

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, 2022 Annual Business Survey: Data Year 2021.