

TABLE 10

Domestic R&D performed by the company that was paid for by the U.S. federal government, by selected industry and type of R&D, for companies with 1–9 employees: 2022

(Thousands of U.S. dollars)

Industry	NAICS code	R&D paid for by the U.S. federal government	Basic research	Applied research	Development
All selected industries	31–33, 42, 51, 5413, 5415, 5417	694,536	45,077	339,881	309,578
Manufacturing industries	31–33	91,538	2,496	45,042	43,999
Food, beverage, and tobacco products	311–12	1,857 r	279 r	1,578 r	0
Textile, apparel, and leather products	313–16	0	0	0	0
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	11,414	765	6,811	3,839
Pharmaceuticals and medicines	3254	6,998	445	4,387	2,166
Chemicals, excluding pharmaceuticals	other 325	4,416	319	2,424	1,673 r
Plastics and rubber products	326	0	0	0	0
Nonmetallic mineral products	327	0	0	0	0
Primary metals	331	1,567	0	0	1,567
Fabricated metal products	332	14,877 r	0	10,248 r	4,629 r
Machinery	333	7,001	0	4,288	2,713 r
Computer and electronic products	334	26,446	800	11,938	13,708
Semiconductor and other electronic components	3344	9,285	0	5,149	4,136
Navigational, measuring, electromedical, and control instruments	3345	16,756	800	6,586	9,369
Other computer and electronic products	other 334	405	0	203	203
Electrical equipment, appliances, and components	335	1,954	0	904	1,050
Transportation equipment	336	11,575 r	0	1,411	10,163 r
Aerospace products and parts	3364	2,273	0	1,411	862
Other transportation equipment	other 336	9,301 r	0	0	9,301 r
Furniture and related products	337	0	0	0	0
Miscellaneous manufacturing	339	14,847	652 r	7,864	6,331
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	602,999	42,581	294,839	265,578
Wholesale trade	42	33,300 r	425	25,266 r	7,610 r
Information	51	21,689	3,182	12,815	5,693
Software publishers	5112	18,740	1,491	11,971	5,279
Information, excluding software publishers	51 less 5112	2,949 r	1,691 r	843	414
Architectural, engineering, and related services	5413	60,927	2,947	30,090	27,890
Computer systems design and related services	5415	82,253	3,339 r	27,510	51,404 r
Scientific research and development services	5417	404,830	32,688	199,160	172,982
Research and development in nanotechnology	541713	33,462	1,772 r	13,278	18,411
Research and development in biotechnology (except nanobiotechnology)	541714	107,984	10,744	56,797	40,443
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	261,653	20,105	127,858	113,689
Social sciences and humanities research and development	541720	1,731	67 r	1,226	438

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.