

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: 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	650,113	52,236	314,323	283,555
Manufacturing industries	31–33	93,413	4,215	54,810	34,388
Food, beverage, and tobacco products	311–12	0	0	0	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	23,845	314	13,363	10,168
Pharmaceuticals and medicines	3254	8,220	153	3,496 r	4,572
Chemicals, excluding pharmaceuticals	other 325	15,625	162	9,867 r	5,597 r
Plastics and rubber products	326	0	0	0	0
Nonmetallic mineral products	327	0	0	0	0
Primary metals	331	435	0	196	239
Fabricated metal products	332	785	0	0	785
Machinery	333	17,465	1,803	9,075 r	6,587
Computer and electronic products	334	36,428	974	26,942	8,512
Semiconductor and other electronic components	3344	20,973	142	17,405	3,426
Navigational, measuring, electromedical, and control instruments	3345	14,437	831	8,555	5,051
Other computer and electronic products	other 334	1,018	0	983	35
Electrical equipment, appliances, and components	335	6,181	444 r	1,760	3,978
Transportation equipment	336	3,631	602 r	990	2,039
Aerospace products and parts	3364	3,631	602 r	990	2,039
Other transportation equipment	other 336	0	0	0	0
Furniture and related products	337	0	0	0	0
Miscellaneous manufacturing	339	4,644	79	2,484	2,081
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	556,700	48,020	259,513	249,167
Wholesale trade	42	6,357	235	3,573	2,549 r
Information	51	22,049 r	6,271 r	11,095 r	4,683
Software publishers	5112	21,565 r	6,271 r	10,612 r	4,683
Information, excluding software publishers	51 less 5112	484	0	484	0
Architectural, engineering, and related services	5413	52,698	5,955	15,905	30,838
Computer systems design and related services	5415	71,755	554 r	43,204 r	27,998 r
Scientific research and development services	5417	403,842	35,007	185,736	183,100
Research and development in nanotechnology	541713	36,697	3,404	14,386	18,907
Research and development in biotechnology (except nanobiotechnology)	541714	122,325	16,809	51,449	54,066
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	242,353	14,792	118,886	108,676
Social sciences and humanities research and development	541720	2,467 r	2 r	1,014 r	1,451 r

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.