

TABLE 2

Total R&D cost, by selected industry and company size, for companies with 1–9 employees: 2022

(Number and thousands of U.S. dollars)

Industry	NAICS code	All companies		1–4 employees		5–9 employees	
		Companies (number)	Amount (\$thousands)	Companies (number)	Amount (\$thousands)	Companies (number)	Amount (\$thousands)
All selected industries	31–33, 42, 51, 5413, 5415, 5417	14,353	7,616,415	9,012	3,573,847	5,341	4,042,568
Manufacturing industries	31–33	1,674	907,975	860	298,997	814	608,978
Food, beverage, and tobacco products	311–12	41	18,222	22	6,932	19	11,289
Textile, apparel, and leather products	313–16	13	9,268	8	1,264	5	8,005
Wood products	321	0	0	0	0	0	0
Paper	322	3	912	0	0	3	912
Printing and related support activities	323	0	0	0	0	0	0
Petroleum and coal products	324	1	202	1	202	0	0
Chemicals	325	275	269,478	149	105,857	126	163,621
Pharmaceuticals and medicines	3254	168	219,793	88	80,128	79	139,665
Chemicals, excluding pharmaceuticals	other 325	107	49,685	60	25,730	47	23,956
Plastics and rubber products	326	73	14,698	45	6,552	28	8,145
Nonmetallic mineral products	327	13	3,642	3	183	10	3,459
Primary metals	331	8	3,983	6	2,645	3	1,338
Fabricated metal products	332	99	46,559	51	10,043	47	36,516
Machinery	333	115	55,687	71	21,179	44	34,508
Computer and electronic products	334	624	198,193	325	74,439	299	123,754
Semiconductor and other electronic components	3344	134	52,464	79	24,163	55	28,300
Navigational, measuring, electromedical, and control instruments	3345	409	111,441	197	37,485	212	73,956
Other computer and electronic products	other 334	82	34,289	49	12,791	32	21,498
Electrical equipment, appliances, and components	335	90	17,504	41	6,195	49	11,309
Transportation equipment	336	68	44,175	25	12,672	43	31,503
Aerospace products and parts	3364	40	24,809	16	7,025	24	17,784
Other transportation equipment	other 336	28	19,366	9	5,647	19	13,719
Furniture and related products	337	3	212	0	0	3	212
Miscellaneous manufacturing	339	249	225,239	115	50,831	135	174,407
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	12,679	6,708,439	8,151	3,274,850	4,527	3,433,589
Wholesale trade	42	725	457,568	418	213,937	307	243,631
Information	51	2,134	907,155	1,192	419,883	942	487,271
Software publishers	5112	1,525	665,064	799	271,918	726	393,146
Information, excluding software publishers	51 less 5112	609	242,091	393	147,965	216	94,126
Architectural, engineering, and related services	5413	1,192	432,941	788	188,162	404	244,779
Computer systems design and related services	5415	5,194	1,739,815	3,529	904,152	1,665	835,663
Scientific research and development services	5417	3,433	3,170,961	2,225	1,548,716	1,209	1,622,245
Research and development in nanotechnology	541713	308	192,203	203	93,523	105	98,680

TABLE 2

Total R&D cost, by selected industry and company size, for companies with 1–9 employees: 2022

(Number and thousands of U.S. dollars)

Industry	NAICS code	All companies		1–4 employees		5–9 employees	
		Companies (number)	Amount (\$thousands)	Companies (number)	Amount (\$thousands)	Companies (number)	Amount (\$thousands)
Research and development in biotechnology (except nanobiotechnology)	541714	1,155	1,523,931	770	753,460	385	770,471
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	1,892	1,432,454	1,197	689,629	695	742,825
Social sciences and humanities research and development	541720	78	22,373	55	12,104	23	10,269

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.