

TABLE 2

Total R&D cost, by selected industry and employment size, for companies with 1–9 employees: 2021

(Number and thousands of U.S. dollars)

Industry	NAICS code	All companies		1–4 employees		5–9 employees	
		Companies (number)	Amount	Companies (number)	Amount	Companies (number)	Amount
All selected industries	31–33, 42, 51, 5413, 5415, 5417	15,855	8,131,847	9,993	3,659,817	5,861	4,472,030
Manufacturing industries	31–33	2,082	990,325	982	415,218	1,102	575,107
Food, beverage, and tobacco products	311–12	71	19,097	16	7,987	54	11,109
Textile, apparel, and leather products	313–16	20	7,096	20	7,096	0	0
Wood products	321	0	138	0	138	0	0
Paper	322	0	0	0	0	0	0
Printing and related support activities	323	0	0	0	0	0	0
Petroleum and coal products	324	2	739	0	0	2	739
Chemicals	325	349	224,348	188	113,915	162	110,433
Pharmaceuticals and medicines	3254	151	178,387	105	93,401	44	84,986
Chemicals, excluding pharmaceuticals	other 325	199	45,962	82	20,514	118	25,447
Plastics and rubber products	326	24	6,700	10	2,703	13	3,997
Nonmetallic mineral products	327	16	3,935	15	3,485	3	450
Primary metals	331	19	2,240	0	591	18	1,648
Fabricated metal products	332	74	16,827	34	10,196	41	6,631
Machinery	333	231	85,202	127	34,750	103	50,452
Computer and electronic products	334	740	372,243	353	109,934	388	262,308
Semiconductor and other electronic components	3344	182	124,080	91	35,134	90	88,946
Navigational, measuring, electromedical, and control instruments	3345	397	194,535	169	51,119	227	143,416
Other computer and electronic products	other 334	162	53,628	95	23,681	69	29,947
Electrical equipment, appliances, and components	335	146	42,416	50	8,593	95	33,824
Transportation equipment	336	78	36,232	42	21,551	37	14,681
Aerospace products and parts	3364	34	13,976	17	8,486	16	5,489
Other transportation equipment	other 336	46	22,257	25	13,065	22	9,192
Furniture and related products	337	4	1,471	2	1,094	3	377
Miscellaneous manufacturing	339	308	171,640	120	93,184	187	78,456
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	13,774	7,141,522	9,012	3,244,599	4,760	3,896,923
Wholesale trade	42	551	172,456	213	40,464	339	131,992
Information	51	2,177	961,919	1,088	295,126	1,088	666,793
Software publishers	5112	1,583	657,405	808	219,923	774	437,482
Information, excluding software publishers	51 less 5112	595	304,514	281	75,204	315	229,310
Architectural, engineering, and related services	5413	1,954	667,715	1,277	278,295	678	389,420
Computer systems design and related services	5415	5,533	1,975,063	4,117	1,043,298	1,414	931,765
Scientific research and development services	5417	3,557	3,364,369	2,318	1,587,415	1,240	1,776,953
Research and development in nanotechnology	541713	356	216,133	203	99,765	153	116,368

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Research and development in biotechnology (except nanobiotechnology)	541714	1,136	1,491,139	756	731,902	381	759,238
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	2,016	1,627,199	1,324	730,715	691	896,484
Social sciences and humanities research and development	541720	48	19,297	31	14,434	16	4,864

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.