

TABLE 7-2

Total R&D cost for companies with 1–4 employees, by selected industry and type of R&D: 2017

(Thousands of U.S. dollars)

Industry	NAICS code	Total	Basic research	Applied research	Development
All selected industries	31–33, 42, 51, 5413, 5415, 5417	3,525,771	478,702	1,265,002	1,782,067
Manufacturing industries	31–33	471,715	47,212	177,447	247,056
Food, beverage, and tobacco products	311–12	7,401	1,794 r	5,262	345 r
Textile, apparel, and leather products	313–16	560	0	280 r	280 r
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
Pharmaceuticals and medicines	3254	64,315	1,858	17,859	44,598 r
Chemicals, excluding pharmaceuticals	325 (excluding 3254)	75,413	6,274	44,547	24,592
Plastics and rubber products	326	1,022	396 r	147	479
Nonmetallic mineral products	327	0	0	0	0
Primary metals	331	1,080 r	0	216 r	864 r
Fabricated metal products	332	4,264	423 r	1,553 r	2,289 r
Machinery	333	21,631	3,673	6,027	11,932
Computer and electronic products	334	199,930	23,862	72,049	104,019
Electrical equipment, appliances, and components	335	29,384	3,064	10,063	16,257
Transportation equipment	336	12,226	1,776 r	3,581	6,870
Furniture and related products	337	0	0	0	0
Miscellaneous manufacturing	339	54,487	4,093 r	15,862	34,532
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	3,054,056	431,490	1,087,555	1,535,011
Wholesale trade	42	35,943	5,697	13,127 r	17,120 r
Information	51	350,872	46,389	90,977	213,505
Software publishers	5112	245,797	32,560	67,335	145,902
Information, excluding software publishers	51 (excluding 5112)	105,075	13,830 r	23,643	67,603
Architectural, engineering, and related services	5413	245,046	34,062	114,660	96,324
Computer systems design and related services	5415	1,336,568	199,561	410,117	726,890
Scientific research and development services	5417	1,085,628	145,780	458,674	481,173

r = relative standard error > 50%.

NAICS = 2017 North American Industry Classification System.

Note(s):

Detail may not add to total because of rounding. Industry classification is based on the 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 U.S. Census Bureau, Annual Business Survey, 2017.