

TABLE 7-3

Total R&D cost for companies with 5–9 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	3,129,946	442,423	965,771	1,721,753
Manufacturing industries	31–33	280,177	26,381	90,261	163,534
Food, beverage, and tobacco products	311–12	2,735 r	0	36 r	2,700 r
Textile, apparel, and leather products	313–16	S	0	S	S
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	S	S	S	S
Pharmaceuticals and medicines	3254	39,030	5,024 r	16,864 r	17,142
Chemicals, excluding pharmaceuticals	325 (excluding 3254)	13,717	3,549	5,162	5,005
Plastics and rubber products	326	8,632 r	369 r	5,971 r	2,292
Nonmetallic mineral products	327	1,836 r	122	490 r	1,224 r
Primary metals	331	0	0	0	0
Fabricated metal products	332	S	0	0	S
Machinery	333	27,976	5,967 r	10,795	11,214
Computer and electronic products	334	144,870	8,008	31,489	105,372 r
Electrical equipment, appliances, and components	335	10,757 r	67 r	10,088 r	602 r
Transportation equipment	336	2,055	321	212	1,522
Furniture and related products	337	0	0	0	0
Miscellaneous manufacturing	339	25,993	2,839	7,580	15,574
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	2,849,769	416,041	875,509	1,558,219
Wholesale trade	42	79,414	29,121	18,183 r	32,110 r
Information	51	388,034	76,290 r	67,134	244,609
Software publishers	5112	216,041	27,481	41,496	147,065
Information, excluding software publishers	51 (excluding 5112)	171,992 r	48,810 r	25,638	97,545
Architectural, engineering, and related services	5413	216,146	22,258	92,654	101,235
Computer systems design and related services	5415	904,128	105,682	257,830	540,615
Scientific research and development services	5417	1,262,048	182,690	439,708	639,650

r = relative standard error > 50%; S = data withheld to avoid disclosing operations of individual companies.

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.