

TABLE 7-1

Total R&D cost for companies with 1–9 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	6,655,717	921,124	2,230,773	3,503,820
Manufacturing industries	31–33	751,892	73,593	267,708	410,590
Food, beverage, and tobacco products	311–12	10,136	1,794 r	5,297	3,045 r
Textile, apparel, and leather products	313–16	2,225 r	0	1,779 r	447 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	S	S	S	S
Pharmaceuticals and medicines	3254	103,345	6,883	34,723	61,740 r
Chemicals, excluding pharmaceuticals	325 (excluding 3254)	89,130	9,823	49,709	29,598
Plastics and rubber products	326	9,654 r	765	6,118 r	2,771
Nonmetallic mineral products	327	1,836 r	122	490 r	1,224 r
Primary metals	331	1,080 r	0	216 r	864 r
Fabricated metal products	332	4,414	423 r	1,553 r	2,439 r
Machinery	333	49,607	9,640	16,822	23,145
Computer and electronic products	334	344,800	31,870	103,539	209,391
Electrical equipment, appliances, and components	335	40,142	3,131	20,152	16,859
Transportation equipment	336	14,281	2,097	3,792	8,392
Furniture and related products	337	0	0	0	0
Miscellaneous manufacturing	339	80,481	6,932	23,442	50,107
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	5,903,825	847,531	1,963,064	3,093,230
Wholesale trade	42	115,357	34,818	31,310	49,230
Information	51	738,905	122,680	158,111	458,114
Software publishers	5112	461,838	60,041	108,831	292,967
Information, excluding software publishers	51 (excluding 5112)	277,067	62,639 r	49,281	165,147
Architectural, engineering, and related services	5413	461,192	56,320	207,314	197,559
Computer systems design and related services	5415	2,240,695	305,244	667,947	1,267,505
Scientific research and development services	5417	2,347,675	328,470	898,383	1,120,822

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.