

TABLE 9-3

Total R&D paid to others, for companies with 5–9 employees, by selected industry and type of R&D performer: 2017

(Thousands of U.S. dollars)

Industry	NAICS code	Total	R&D paid for by the company and performed by another U.S. business	R&D paid for by the company and performed by a U.S. university or college	R&D paid for by the company and performed by other organizations
All selected industries	31–33, 42, 51, 5413, 5415, 5417	451,147	274,336	36,521	72,647
Manufacturing industries	31–33	39,348	25,967	3,955 r	1,167
Food, beverage, and tobacco products	311–12	S	S	0	0
Textile, apparel, and leather products	313–16	0	0	0	0
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	12,313	10,223	421 r	0
Chemicals, excluding pharmaceuticals	325 (excluding 3254)	1,209	385	50	79
Plastics and rubber products	326	743 r	0	0	0
Nonmetallic mineral products	327	S	0	0	0
Primary metals	331	0	0	0	0
Fabricated metal products	332	0	0	0	0
Machinery	333	866 r	866 r	0	0
Computer and electronic products	334	14,302	5,192 r	3,471 r	1,087
Electrical equipment, appliances, and components	335	1,009 r	1,009 r	0	0
Transportation equipment	336	458	S	0	0
Furniture and related products	337	0	0	0	0
Miscellaneous manufacturing	339	7,083 r	7,070 r	12 r	0
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	411,799	248,369	32,566	71,480
Wholesale trade	42	24,645 r	24,598 r	0	0
Information	51	19,255	14,131 r	S	2,279 r
Software publishers	5112	13,455 r	9,881 r	S	2,279 r
Information, excluding software publishers	51 (excluding 5112)	5,801 r	4,250 r	0	0
Architectural, engineering, and related services	5413	18,618	13,832 r	2,175 r	251
Computer systems design and related services	5415	32,319	15,159	433 r	11,023 r
Scientific research and development services	5417	316,961	180,648	29,941	57,928

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.