

TABLE 9-1

Total R&D paid for by the company and performed by others for companies with 1–9 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	965,351	559,973	103,603	159,621
Manufacturing industries	31–33	105,507	75,143	11,526	7,312
Food, beverage, and tobacco products	311–12	1,966	1,966	0	0
Textile, apparel, and leather products	313–16	112	r 56	0	56
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	23,091	i 18,999	i 1,230	r 780
Chemicals, excluding pharmaceuticals	325 (excluding 3254)	6,159	3,295	r 1,616	258
Plastics and rubber products	326	785	S	0	S
Nonmetallic mineral products	327	S	0	0	0
Primary metals	331	270	r 0	0	270
Fabricated metal products	332	136	S	0	134
Machinery	333	1,504	r 1,341	0	0
Computer and electronic products	334	49,633	r 33,306	r 6,407	r 4,814
Electrical equipment, appliances, and components	335	5,799	2,920	r 886	r 208
Transportation equipment	336	1,048	111	0	483
Furniture and related products	337	0	0	0	0
Miscellaneous manufacturing	339	14,828	r 13,120	r 1,388	r 295
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	859,844	484,830	92,076	152,309
Wholesale trade	42	31,530	r 26,744	r 4,329	r 409
Information	51	48,762	33,808	102	r 8,061
Software publishers	5112	31,250	22,210	r 78	r 6,381
Information, excluding software publishers	51 (excluding 5112)	17,512	r 11,598	r 25	1,680
Architectural, engineering, and related services	5413	32,806	24,553	3,144	1,819
Computer systems design and related services	5415	133,407	48,979	r 3,278	43,662
Scientific research and development services	5417	613,339	350,745	81,222	98,358

i = > 50% of the estimate is a combination of imputation and reweighting to account for nonresponse; 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.