

TABLE 2

Total R&D cost for companies with 1–9 employees, by selected industry and company size: 2017

(Thousands of U.S. dollars)

Industry	NAICS code	All companies		1–4 employees		5–9 employees	
		Companies (number)	Amount	Companies (number)	Amount	Companies (number)	Amount
All selected industries	31–33, 42, 51, 5413, 5415, 5417	18,395	6,655,717	13,003	3,525,771	5,392	3,129,946
Manufacturing industries	31–33	2,580	751,892	1,890	471,715	689	280,177
Food, beverage, and tobacco products	311–12	40	10,136	34	7,401	6	2,735
Textile, apparel, and leather products	313–16	10	2,225	7	560	S	S
Wood products	321	0	0	0	0	0	0
Paper	322	0	0	0	0	0	0
Printing and related support activities	323	0	0	0	0	0	0
Petroleum and coal products	324	S	S	0	0	S	S
Chemicals	325	455	192,475	348	139,728	107	52,747
Pharmaceuticals and medicines	3254	143	103,345	107	64,315	36	39,030
Chemicals, excluding pharmaceuticals	other 325	312	89,130	241	75,413	71	13,717
Plastics and rubber products	326	32	9,654	12	1,022	20	8,632
Nonmetallic mineral products	327	6	1,836	0	0	6	1,836
Primary metals	331	3	1,080	3	1,080	0	0
Fabricated metal products	332	16	4,414	14	4,264	S	S
Machinery	333	316	49,607	188	21,631	128	27,976
Computer and electronic products	334	1,133	344,800	832	199,930	301	144,870
Semiconductor and other electronic components	3344	253	43,626	209	31,133	44	12,493
Navigational, measuring, electromedical, and control instruments	3345	592	241,129	450	144,602	142	96,527
Other computer and electronic products	other 334	288	60,045	173	24,195	115	35,850
Electrical equipment, appliances, and components	335	144	40,142	132	29,384	12	10,757
Transportation equipment	336	88	14,281	74	12,226	14	2,055
Aerospace products and parts	3364	17	7,326	16	6,670	S	S
Other transportation equipment	other 336	70	6,954	58	5,556	12	1,398
Furniture and related products	337	0	0	0	0	0	0
Miscellaneous manufacturing	339	335	80,481	245	54,487	90	25,993
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	15,816	5,903,825	11,112	3,054,056	4,703	2,849,769
Wholesale trade	42	256	115,357	125	35,943	132	79,414
Information	51	1,972	738,905	1,254	350,872	719	388,034
Software publishers	5112	1,430	461,838	891	245,797	540	216,041
Information, excluding software publishers	51 (excluding 5112)	542	277,067	363	105,075	179	171,992
Architectural, engineering, and related services	5413	945	461,192	615	245,046	330	216,146
Computer systems design and related services	5415	9,220	2,240,695	6,802	1,336,568	2,418	904,128
Scientific research and development services	5417	3,423	2,347,675	2,318	1,085,628	1,105	1,262,048
Research and development in nanotechnology	541713	654	329,418	470	176,017	184	153,402
Research and development in biotechnology (except nanobiotechnology)	541714	814	806,891	547	350,746	268	456,145

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Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	1,801	1,163,300	1,185	533,107	616	630,193
Social sciences and humanities research and development	541720	143	45,483	111	25,014	33	20,469

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.