

TABLE 8-2

Total R&D cost for companies with 1–4 employees, by selected industry and type of cost: 2017

(Thousands of U.S. dollars)

Industry	NAICS code	Total	Salaries, wages, and fringe benefits	Expensed machinery and equipment	Materials and supplies	Payments to business partners for collaborative R&D	Purchased R&D service	Depreciation on R&D property and equipment	Other
All selected industries	31–33, 42, 51, 5413, 5415, 5417	3,525,771	1,895,125	153,000	319,901	228,498	285,706	51,480	592,061
Manufacturing industries	31–33	471,715	206,015	39,902	87,129	24,479	41,680	7,177	65,333
Food, beverage, and tobacco products	311–12	7,401	3,121	456	2,393	345	432	0	654
Textile, apparel, and leather products	313–16	560	112	0	168	56	56	28	140
Wood products	321	0	0	0	0	0	0	0	0
Paper	322	0	0	0	0	0	0	0	0
Printing and related support activities	323	0	0	0	0	0	0	0	0
Petroleum and coal products	324	0	0	0	0	0	0	0	0
Pharmaceuticals and medicines	3254	64,315	18,037	12,796	11,422	5,817	4,961	1,950	9,332
Chemicals, excluding pharmaceuticals	325 (excluding 3254)	75,413	27,192	4,195	30,769	1,421	3,529	855	7,452
Plastics and rubber products	326	1,022	529	S	88	S	28	0	351
Nonmetallic mineral products	327	0	0	0	0	0	0	0	0
Primary metals	331	1,080	378	324	108	216	54	0	0
Fabricated metal products	332	4,264	2,303	404	992	0	136	95	334
Machinery	333	21,631	11,147	1,729	4,412	193	445	9	3,696
Computer and electronic products	334	199,930	98,730	11,458	25,756	8,153	27,178	1,480	27,174
Electrical equipment, appliances, and components	335	29,384	13,635	2,884	4,201	3,861	929	303	3,571
Transportation equipment	336	12,226	6,511	1,425	2,113	41	549	591	996
Furniture and related products	337	0	0	0	0	0	0	0	0
Miscellaneous manufacturing	339	54,487	24,320	4,217	4,707	4,363	3,382	1,865	11,633
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	3,054,056	1,689,109	113,099	232,773	204,019	244,025	44,303	526,728
Wholesale trade	42	35,943	14,193	1,632	6,499	4,156	2,729	477	6,257
Information	51	350,872	249,597	6,783	9,326	14,515	14,992	1,191	54,468
Software publishers	5112	245,797	178,522	3,044	4,826	5,485	12,310	893	40,717

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Information, excluding software publishers	51 (excluding 5112)	105,075	71,075	3,739	4,500	9,030	2,681	298	13,751
Architectural, engineering, and related services	5413	245,046	119,199	21,814	35,577	9,056	5,132	5,115	49,153
Computer systems design and related services	5415	1,336,568	892,840	43,945	52,459	52,302	48,786	15,822	230,414
Scientific research and development services	5417	1,085,628	413,280	38,925	128,911	123,991	172,386	21,698	186,436

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.