

TABLE 8-3

## Total R&amp;D cost for companies with 5–9 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	3,129,946	1,761,625	103,952	263,224	132,516	318,632	40,253	509,745
Manufacturing industries	31–33	280,177	145,786	14,641	41,387	9,629	29,719	2,941	36,075
Food, beverage, and tobacco products	311–12	2,735	1,237	0	71	5	0	0	5
Textile, apparel, and leather products	313–16	5	5	0	5	0	0	5	5
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	5	5	5	5	0	0	0	5
Pharmaceuticals and medicines	3254	39,030	13,623	413	7,449	106	12,207	117	5,116
Chemicals, excluding pharmaceuticals	325 (excluding 3254)	13,717	7,735	1,071	2,543	533	676	373	786
Plastics and rubber products	326	8,632	3,094	625	624	278	465	0	3,545
Nonmetallic mineral products	327	1,836	708	276	535	5	5	62	80
Primary metals	331	0	0	0	0	0	0	0	0
Fabricated metal products	332	5	5	5	5	0	0	5	0
Machinery	333	27,976	16,541	2,484	5,915	123	744	288	1,882
Computer and electronic products	334	144,870	83,465	8,251	18,319	6,244	8,058	1,079	19,454
Electrical equipment, appliances, and components	335	10,757	6,724	672	1,343	504	504	504	504
Transportation equipment	336	2,055	707	48	720	203	5	0	123
Furniture and related products	337	0	0	0	0	0	0	0	0
Miscellaneous manufacturing	339	25,993	10,762	642	3,339	279	6,804	230	3,938
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	2,849,769	1,615,839	89,311	221,838	122,887	288,912	37,312	473,670
Wholesale trade	42	79,414	40,106	1,508	2,261	7,388	17,257	421	10,474
Information	51	388,034	243,867	11,481	12,523	9,357	9,898	926	99,980
Software publishers	5112	216,041	156,520	10,235	10,724	4,420	9,035	909	24,197

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Information, excluding software publishers	51 (excluding 5112)	171,992 r	87,347	1,246 r	1,799 r	4,938 r	863 r	17 r	75,783 r
Architectural, engineering, and related services	5413	216,146	120,927	11,077	24,118	9,067	9,550 r	2,645	38,762
Computer systems design and related services	5415	904,128	697,459	27,576	33,373	14,019	18,301	9,375	104,025
Scientific research and development services	5417	1,262,048	513,481	37,670	149,562	83,055	233,906	23,945	220,428

r = relative standard error &gt; 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&amp;D.

**Source(s):**

National Center for Science and Engineering Statistics and U.S. Census Bureau, Annual Business Survey, 2017.