

TABLE 8-1

Total R&D cost for companies with 1–9 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	6,655,717	3,656,750	256,952	583,126	361,014	604,337	91,733	1,101,806
Manufacturing industries	31–33	751,892	351,801	54,542	128,516	34,108	71,400	10,118	101,407
Food, beverage, and tobacco products	311–12	10,136	4,358	456 r	2,464	1,534 r	432 r	0	892
Textile, apparel, and leather products	313–16	2,225 r	778 r	0	584 r	56 r	56 r	278 r	473 r
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	S	S	S	S	0	0	0	S
Pharmaceuticals and medicines	3254	103,345	31,659	13,209 r	18,871 i	5,923 r	17,168	2,067 r	14,448
Chemicals, excluding pharmaceuticals	325 (excluding 3254)	89,130	34,927	5,266	33,312	1,954	4,205	1,229	8,237
Plastics and rubber products	326	9,654 r	3,624	639 r	712	291 r	494 r	0	3,896 r
Nonmetallic mineral products	327	1,836 r	708	276 r	535 r	S	S	62 r	80 r
Primary metals	331	1,080 r	378 r	324 r	108 r	216 r	54 r	0	0
Fabricated metal products	332	4,414	2,340	441 r	1,030 r	0	136	133 r	334 r
Machinery	333	49,607	27,688	4,213	10,327	315	1,189 r	297 r	5,579
Computer and electronic products	334	344,800	182,195	19,709	44,075	14,397	35,237 r	2,559	46,628
Electrical equipment, appliances, and components	335	40,142	20,360	3,556	5,544	4,365	1,434	808 r	4,076
Transportation equipment	336	14,281	7,217	1,473	2,832	244	804	591	1,119
Furniture and related products	337	0	0	0	0	0	0	0	0
Miscellaneous manufacturing	339	80,481	35,082	4,859 r	8,046	4,642	10,186 r	2,095	15,571
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	5,903,825	3,304,949	202,410	454,610	326,906	532,938	81,615	1,000,398
Wholesale trade	42	115,357	54,299	3,140	8,760	11,544 r	19,987 r	898	16,731
Information	51	738,905	493,464	18,264	21,849	23,872	24,890	2,117	154,448
Software publishers	5112	461,838	335,042	13,279	15,550	9,905	21,346	1,802	64,914

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Information, excluding software publishers	51 (excluding 5112)	277,067	158,422	4,985	6,299	13,968	r	3,544	315	89,534	r
Architectural, engineering, and related services	5413	461,192	240,126	32,890	59,695	18,123		14,683	7,760	87,915	
Computer systems design and related services	5415	2,240,695	1,590,299	71,521	85,833	66,320		67,086	25,196	334,439	
Scientific research and development services	5417	2,347,675	926,761	76,594	278,473	207,046		406,292	45,643	406,865	

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.