

TABLE 6

Domestic R&D costs, by selected industry and type of cost, for companies with 1–9 employees: 2020

(Thousands of U.S. dollars)

Industry	NAICS code	Total	Salaries, wages, and fringe benefits	Expensed machinery and equipment	Materials and supplies	Payments to others for R&D	Depreciation on R&D property and equipment	All other costs
All selected industries	31–33, 42, 51, 5413, 5415, 5417	6,743,889	3,511,467	257,555	679,075	1,143,221	69,798	1,082,773
Manufacturing industries	31–33	752,930	369,692	32,106	100,275	125,543	17,732	107,583
Food, beverage, and tobacco products	311–12	18,708	6,677	669	1,278	9,094	55	935
Textile, apparel, and leather products	313–16	472	445	0	16	0	0	11
Wood products	321	0	0	0	0	0	0	0
Paper	322	0	0	0	0	0	0	0
Printing and related support activities	323	0	0	0	0	0	0	0
Petroleum and coal products	324	0	0	0	0	0	0	0
Chemicals	325	190,274	91,284	8,429	31,352	30,242	3,737	25,228
Pharmaceuticals and medicines	3254	97,887	35,728	3,794	19,743	20,833	1,994	15,795
Chemicals, excluding pharmaceuticals	other 325	92,387	55,555	4,635	11,609	9,410	1,743	9,433
Plastics and rubber products	326	21,106	9,811	2,089	2,644	3,007	240	3,314
Nonmetallic mineral products	327	133	67	0	67	0	0	0
Primary metals	331	9,299	4,141	3,577	723	223	0	635
Fabricated metal products	332	59,474	23,070	227	1,358	22,182	1,709	10,927
Machinery	333	66,843	39,225	2,771	11,546	4,003	5,365	3,934
Computer and electronic products	334	229,604	124,147	9,798	26,029	40,378	5,221	24,030
Semiconductor and other electronic components	3344	40,448	19,514	2,567	8,144	4,076	738	5,409
Navigational, measuring, electromedical, and control instruments	3345	170,228	92,117	5,282	16,196	34,576	4,275	17,781
Other computer and electronic products	other 334	18,928	12,515	1,949	1,690	1,727	208	840
Electrical equipment, appliances, and components	335	29,119	12,067	1,281	4,591	4,161	546	6,472
Transportation equipment	336	40,380	21,158	829	9,477	2,134	80	6,703
Aerospace products and parts	3364	21,292	11,962	465	5,288	1,985	34	1,557
Other transportation equipment	other 336	19,089	9,196	364	4,189	148	46	5,145
Furniture and related products	337	124	34	0	69	0	0	21
Miscellaneous manufacturing	339	87,395	37,567	2,434	11,124	10,118	778	25,373
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	5,990,959	3,141,776	225,449	578,800	1,017,678	52,066	975,190
Wholesale trade	42	488,544	177,230	88,087	46,004	96,128	3,686	77,409
Information	51	716,501	579,885	15,978	10,137	26,735	1,342	82,424
Software publishers	5112	483,848	389,464	8,581	4,634	15,291	859	65,019
Information, excluding software publishers	51 less 5112	232,654	190,421	7,397	5,504	11,444	483	17,405
Architectural, engineering, and related services	5413	620,222	338,355	35,706	101,741	45,856	7,978	90,586

TABLE 6

Domestic R&D costs, by selected industry and type of cost, for companies with 1–9 employees: 2020

(Thousands of U.S. dollars)

Industry	NAICS code	Total	Salaries, wages, and fringe benefits	Expensed machinery and equipment	Materials and supplies	Payments to others for R&D	Depreciation on R&D property and equipment	All other costs
Computer systems design and related services	5415	1,177,772	901,881	15,981	33,389	55,150	7,444	163,927
Scientific research and development services	5417	2,987,920	1,144,425	69,698	387,529	793,810	31,615	560,843
Research and development in nanotechnology	541713	190,087	100,804	5,116	23,117	27,091	3,210	30,749
Research and development in biotechnology (except nanobiotechnology)	541714	1,404,908	431,633	31,844	193,664	491,394	12,072	244,300
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	1,369,996	599,340	32,205	169,598	270,625	16,237	281,990
Social sciences and humanities research and development	541720	22,929	12,647	533 r	1,150 r	4,700	96 r	3,804

r = relative standard error > 50%.

NAICS = 2017 North American Industry Classification System.

Note(s):

Detail may not add to total because of rounding or unavailable NAICS detail for select records beyond the 4-digit industry classification. Industry classification is based on 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 Census Bureau, 2021 Annual Business Survey: Data Year 2020.