

TABLE 6

Domestic R&D costs, by selected industry and type of cost, for companies with 1–9 employees: 2021

(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	7,254,217	4,036,146	199,530	573,007	1,129,548	74,926	1,241,060
Manufacturing industries	31–33	920,331	425,563	27,714	128,070	173,207	9,581	156,196
Food, beverage, and tobacco products	311–12	19,097	11,185	2,710	3,718	827	57	600
Textile, apparel, and leather products	313–16	7,096	2,523	39	493	0	16	4,024
Wood products	321	138	106	14	3	4	0	11
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	739	444	30	148	0	0	118
Chemicals	325	208,440	59,578	8,664	25,060	76,185	3,357	35,595
Pharmaceuticals and medicines	3254	163,546	37,379	6,958	22,124	66,881	2,717	27,488
Chemicals, excluding pharmaceuticals	other 325	44,894	22,199	1,706	2,937	9,305	640	8,107
Plastics and rubber products	326	6,486	3,001	491	940	59	115	1,880
Nonmetallic mineral products	327	3,808	3,250	0	327	170	8	52
Primary metals	331	2,240	930	348	253	123	209	376
Fabricated metal products	332	15,819	5,495	1,130	2,569	3,836	367	2,422
Machinery	333	76,360	46,830	1,091	6,670	12,252	81	9,437
Computer and electronic products	334	330,785	172,865	7,014	50,420	51,582	4,163	44,741
Semiconductor and other electronic components	3344	105,362	48,223	3,199	7,767	34,082	2,006	10,084
Navigational, measuring, electromedical, and control instruments	3345	179,628	102,953	2,865	35,825	14,829	1,141	22,014
Other computer and electronic products	other 334	45,795	21,689	950	6,828	2,672	1,016	12,642
Electrical equipment, appliances, and components	335	41,714	25,638	1,707	6,881	1,682	426	5,381
Transportation equipment	336	36,042	20,951	1,703	9,961	2,131	185	1,112
Aerospace products and parts	3364	13,903	9,043	311	3,031	900	45	573
Other transportation equipment	other 336	22,139	11,907	1,391	6,930	1,231	139	540
Furniture and related products	337	1,471	273	286	54	0	36	821
Miscellaneous manufacturing	339	170,097	72,495	2,487	20,574	24,356	560	49,626
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	6,333,886	3,610,583	171,816	444,937	956,342	65,345	1,084,863
Wholesale trade	42	154,712	71,006	7,676	43,108	11,649	1,159	20,114
Information	51	784,850	617,001	39,065	17,102	28,193	6,171	77,319
Software publishers	5112	560,818	460,456	9,596	13,299	24,868	6,109	46,490
Information, excluding software publishers	51 less 5112	224,032	156,545	29,469	3,803	3,325	61	30,829
Architectural, engineering, and related services	5413	647,610	447,922	27,288	59,372	41,424	7,188	64,415
Computer systems design and related services	5415	1,690,254	1,226,739	27,900	40,717	74,064	5,269	315,566
Scientific research and development services	5417	3,056,460	1,247,915	69,886	284,639	801,012	45,559	607,450
Research and development in nanotechnology	541713	201,891	111,127	5,676	17,371	29,309	2,815	35,595
Research and development in biotechnology (except nanobiotechnology)	541714	1,288,461	441,338	18,479	115,229	419,881	20,267	273,267

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Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	1,538,246	677,439	45,557	151,157	344,568	22,421	297,103
Social sciences and humanities research and development	541720	17,262	9,856	174	474	5,215	56 r	1,485

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, 2022 Annual Business Survey: Data Year 2021.