

TABLE 6

Domestic R&D costs, by selected industry and type of cost, for companies with 1–9 employees: 2022

(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	6,715,757	3,690,003	178,461	610,277	1,005,187	64,854	1,166,975
Manufacturing industries	31–33	871,014	343,316	42,082	139,093	176,767	11,744	158,012
Food, beverage, and tobacco products	311–12	18,162	7,296	3,628 r	1,416	736 r	35 r	5,052 r
Textile, apparel, and leather products	313–16	9,268 r	4,903 r	288 r	1,167 r	0	90 r	2,820 r
Wood products	321	0	0	0	0	0	0	0
Paper	322	912 r	670 r	38 r	21 r	13 r	0	169 r
Printing and related support activities	323	0	0	0	0	0	0	0
Petroleum and coal products	324	202	97	53	0	44	0	9
Chemicals	325	259,180	80,099	6,833	35,575	90,617	5,088	40,969
Pharmaceuticals and medicines	3254	210,352	54,308	3,922	29,689	84,878	3,177	34,379
Chemicals, excluding pharmaceuticals	other 325	48,828	25,791	2,912	5,885	5,739 r	1,911	6,590
Plastics and rubber products	326	14,698	7,299 r	1,408 r	3,141 r	231 r	229 r	2,390 r
Nonmetallic mineral products	327	3,642	2,782	215	484	34 r	101 r	26
Primary metals	331	3,709	1,453	447	467	496	27	818 r
Fabricated metal products	332	46,559 r	19,339 r	7,501 r	4,773	1,684 r	465 r	12,797 r
Machinery	333	44,908	25,046	2,649 r	7,649	574	189	8,801 r
Computer and electronic products	334	190,377	102,588	8,108	30,000	18,449	2,107	29,124
Semiconductor and other electronic components	3344	51,473	27,740	759	8,640	5,046	588	8,701
Navigational, measuring, electromedical, and control instruments	3345	107,299	57,354	4,448	15,960	12,484	1,019	16,034
Other computer and electronic products	other 334	31,605	17,494	2,902	5,400	919	500	4,389
Electrical equipment, appliances, and components	335	17,417	8,876	584	3,251	2,820	44	1,842
Transportation equipment	336	44,133	22,856	1,220 r	4,993	7,395	94	7,574
Aerospace products and parts	3364	24,767	12,036	1,072 r	2,105	4,885 r	52	4,616
Other transportation equipment	other 336	19,366	10,820	148	2,888 r	2,510 r	42 r	2,957 r
Furniture and related products	337	212	133	35	44	0	0	0
Miscellaneous manufacturing	339	217,634	59,879	9,074 r	46,111	53,675 r	3,275 r	45,620
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	5,844,743	3,346,687	136,379	471,184	828,420	53,110	1,008,963
Wholesale trade	42	382,712	183,835	7,665	38,741	76,750	3,741	71,980
Information	51	676,309	543,557	26,714	14,849	22,644	2,276	66,268
Software publishers	5112	495,336	418,082	6,098	10,630	16,870	1,362	42,294
Information, excluding software publishers	51 less 5112	180,973	125,475	20,616 r	4,219	5,774	915	23,974
Architectural, engineering, and related services	5413	412,244	264,122	14,118	43,252	23,398	1,164	66,191
Computer systems design and related services	5415	1,458,925	1,149,759	27,619	57,072	43,954	5,812	174,708
Scientific research and development services	5417	2,914,553	1,205,414	60,263	317,270	661,673	40,116	629,817
Research and development in nanotechnology	541713	171,764	84,760	4,773	18,271	34,492	2,029	27,438
Research and development in biotechnology (except nanobiotechnology)	541714	1,389,297	498,796	23,696	168,504	378,936	17,192	302,172

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Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	1,331,941	606,424	31,614	129,598	246,678	20,477	297,149
Social sciences and humanities research and development	541720	21,551	15,433	180 r	896	1,567	418	3,058

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, 2023 Annual Business Survey: Data Year 2022.