

Table 6-3. Domestic R&D costs, by selected industry and type of cost, for companies with 5–9 employees: 2023

(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	3,805,799	2,197,827		80,279	276,425		664,772	26,725	559,770
Manufacturing industries	31–33	374,931	198,006		18,559	47,917		31,532	5,101	73,817
Food, beverage, and tobacco products	311–12	5,742	2,822	r	419	1,394	r	842	0	265
Textile, apparel, and leather products	313–16	5,617	2,809	r	0	1,872	r	0	0	936
Wood products	321	817	654	r	0	163	r	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	146,690	69,775	r	2,968	18,357		9,825	996	44,769
Pharmaceuticals and medicines	3254	38,071	15,726		451	7,393		6,051	488	7,962
Chemicals, excluding pharmaceuticals	other 325	108,619	54,049	r	2,517	10,964	r	3,774	508	36,806
Plastics and rubber products	326	22,002	10,348	r	5,409	2,492	r	2,041	25	1,687
Nonmetallic mineral products	327	1,984	1,682	r	279	0		0	0	23
Primary metals	331	419	302		105	13	r	0	0	0
Fabricated metal products	332	6,546	3,321		311	1,429	r	184	45	1,256
Machinery	333	28,308	18,273		1,676	4,395		956	172	2,835
Computer and electronic products	334	117,181	70,280		5,702	11,279		11,815	1,138	16,967
Semiconductor and other electronic components	3344	25,118	15,118		798	2,411		2,237	205	4,349
Navigational, measuring, electromedical, and control instruments	3345	69,405	39,035		3,589	6,466		8,679	858	10,777
Other computer and electronic products	other 334	22,658	16,127		1,314	2,402		899	75	1,841
Electrical equipment, appliances, and components	335	11,760	6,951		533	1,867		1,153	571	685
Transportation equipment	336	12,131	3,310		517	2,554		1,996	1,660	2,094
Aerospace products and parts	3364	2,072	512		0	636	r	643	4	277
Other transportation equipment	other 336	10,058	2,798		517	1,918		1,353	1,656	1,816
Furniture and related products	337	307	174		79	40		14	0	0
Miscellaneous manufacturing	339	15,426	7,305		560	2,062		2,706	492	2,301
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	3,430,868	1,999,822		61,721	228,509		633,240	21,624	485,953
Wholesale trade	42	94,918	66,406		10,531	5,519		4,371	422	7,670
Information	51	561,109	451,332		9,540	34,440	r	15,166	592	50,039
Software publishers	5112	447,628	378,603		5,069	22,339	r	12,746	479	28,392
Information, excluding software publishers	51 less 5112	113,481	72,730		4,470	12,101	r	2,420	113	21,647
Architectural, engineering, and related services	5413	327,363	222,775		2,777	30,590	r	19,016	2,037	50,167
Computer systems design and related services	5415	785,712	617,035		8,694	16,978		63,224	1,434	78,347
Scientific research and development services	5417	1,661,766	642,273		30,180	140,982		531,463	17,139	299,729
Research and development in nanotechnology	541713	41,700	21,781		2,104	5,704		3,342	583	8,187
Research and development in biotechnology (except nanobiotechnology)	541714	846,206	272,813		8,931	65,600		365,752	8,220	124,889

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Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	764,503		342,303		18,971		68,947		161,554		8,336		164,392	
Social sciences and humanities research and development	541720	9,357	r	5,376	r	174	r	730	r	815	r	0		2,262	r

r = relative standard error > 50%.

NAICS = 2022 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, 2024 Annual Business Survey: Data Year 2023.