

Table 6-1. Domestic R&D costs, by selected industry and type of cost, for companies with 1–9 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	7,118,582	4,006,505		169,182		545,264		1,174,829		48,708	1,174,095	
Manufacturing industries	31–33	617,406	300,531		30,077		76,400		60,131		6,480	143,788	
Food, beverage, and tobacco products	311–12	7,617	3,082 r		419 r		1,441 r		2,179		0	496	
Textile, apparel, and leather products	313–16	5,748 r	2,896 r		0		1,916 r		0		0	936 r	
Wood products	321	10,390 r	5,547 r		0		163 r		0		0	4,680 r	
Paper	322	0	0		0		0		0		0	0	
Printing and related support activities	323	91	61		0		30		0		0	0	
Petroleum and coal products	324	0	0		0		0		0		0	0	
Chemicals	325	188,629	87,990		5,958		22,221		17,511		1,578	53,372 r	
Pharmaceuticals and medicines	3254	54,548	21,996		1,209		8,796		12,251		737	9,560	
Chemicals, excluding pharmaceuticals	other 325	134,081 r	65,994 r		4,749		13,425 r		5,259		841	43,812 r	
Plastics and rubber products	326	22,811 r	10,773 r		5,647 r		2,552 r		2,041 r		29 r	1,769 r	
Nonmetallic mineral products	327	4,070	2,877 r		792 r		276 r		0		0	125	
Primary metals	331	1,226	688		130		37		371		0	0	
Fabricated metal products	332	6,546 r	3,321		311 r		1,429 r		184		45	1,256 r	
Machinery	333	40,561	23,979		2,283 r		5,198		1,354 r		236	7,511	
Computer and electronic products	334	239,993	117,247		8,982		24,710		23,908		1,594	63,552 r	
Semiconductor and other electronic components	3344	69,842	35,969		1,385		6,719		11,112 r		377	14,280	
Navigational, measuring, electromedical, and control instruments	3345	138,980	58,435		5,802		14,919		11,749		1,091	46,983 r	
Other computer and electronic products	other 334	31,171	22,844		1,795 r		3,072		1,046		125	2,289	
Electrical equipment, appliances, and components	335	19,464	9,690		1,646 r		2,989		2,559		708	1,872	
Transportation equipment	336	17,245	4,856		1,340		3,124		3,057		1,781	3,088	
Aerospace products and parts	3364	6,727	2,058		823 r		1,205		1,244		125 r	1,272	
Other transportation equipment	other 336	10,518	2,798		517		1,918		1,812		1,656	1,816	
Furniture and related products	337	307	174		79		40		14		0	0	
Miscellaneous manufacturing	339	52,709	27,350		2,489 r		10,276		6,953		509	5,131	
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	6,501,176	3,705,974		139,104		468,864		1,114,699		42,228	1,030,307	
Wholesale trade	42	186,364	119,346		12,111 r		17,743		12,285		1,655 r	23,225	
Information	51	944,298	761,867		15,179		38,615		31,442		1,812	95,383	
Software publishers	5112	770,221	647,291		8,669		24,544		23,120 r		1,088	65,508	
Information, excluding software publishers	51 less 5112	174,077	114,575		6,510		14,071 r		8,322 r		724 r	29,875 r	
Architectural, engineering, and related services	5413	632,387	368,609		22,057		108,077 r		36,706		5,109	91,828	
Computer systems design and related services	5415	1,635,359	1,250,738		26,552		52,706		79,256		4,399	221,708	
Scientific research and development services	5417	3,102,768	1,205,413		63,206		251,723		955,009		29,254	598,163	
Research and development in nanotechnology	541713	113,214	54,244		6,779		12,063		16,596		1,890	21,642	
Research and development in biotechnology (except nanobiotechnology)	541714	1,466,282	488,830		19,516		110,894		582,839		13,349	250,854	

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Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	1,509,868		654,709		36,708		127,962		354,497		14,016		321,976
Social sciences and humanities research and development	541720	13,404		7,629		202	r	805	r	1,078		0		3,690

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.