

Table 23. Companies that performed foreign R&D, domestic and foreign R&D paid for by the company and others and performed by the company, by type of R&D and selected industry: 2024

(Millions of U.S. dollars)

Industry	NAICS code	Total	Paid for by the company	Paid for by others	Research (basic and applied)			Development											
					Total	Paid for by the company	Paid for by others	Total	Paid for by the company	Paid for by others									
Total domestic R&D performance																			
All industries	21–23, 31–33, 42–81	585,566		535,050		50,516		105,677		90,989		14,688	i	479,888		444,061		35,828	
Manufacturing industries	31–33	305,082		274,775		30,307		64,554		56,919		7,635	i	240,529		217,856		22,672	
Chemicals	325	89,459		86,344		3,115		27,407		26,393		1,014	i	62,052		59,951		2,101	
Pharmaceuticals and medicines	3254	83,034		80,324		2,709		25,314		24,399		915	i	57,720		55,926		1,794	
Other chemicals	other 325	6,426		6,020		406		2,093		1,994		99		4,332		4,025		307	
Computer and electronic products	334	103,710		99,586		4,124		15,343		14,372		970	i	88,367		85,214		3,154	
Semiconductor and other electronic components	3344	46,511		46,230		281		5,103	i	5,072	i	31		41,408	i	41,158	i	250	
Other computer and electronic products	other 334	57,200		53,356		3,844		10,240		9,300		940	i	46,960		44,056		2,904	
Nonmanufacturing industries	21–23, 42–81	280,483		260,274		20,209		41,124		34,070		7,054		239,360		226,204		13,155	i
Information	51	199,860		199,642		218		17,513		17,470		43		182,346		182,172		175	
Software publishers	5112	56,582		56,427		155		3,949		3,922		27		52,632		52,505		127	
Other information	other 51	143,278		143,215		63		13,564		13,548		16		129,714		129,667		47	
Professional, scientific, and technical services	54	43,854		23,998		19,857		14,192		7,185	i	7,007		29,662		16,813		12,850	i
Scientific research and development services	5417	21,304		2,318		18,986		7,129		880	i	6,249		14,175	i	1,439	i	12,736	i
Other professional, scientific, and technical services	other 54	22,551		21,679		871		7,063		6,305		758		15,487		15,374		113	
Total foreign R&D performance																			
All industries	21–23, 31–33, 42–81	164,727		150,198		14,529		26,058		21,335		4,723		138,669		128,863		9,807	
Manufacturing industries	31–33	90,435		88,546		1,890		14,015		13,646		369		76,420		74,900		1,520	
Chemicals	325	26,941		26,396		545		5,953		5,793		161	i	20,987		20,604		384	
Pharmaceuticals and medicines	3254	24,122		23,612		509		5,212		5,077		134	i	18,910		18,535		375	
Other chemicals	other 325	2,819		2,784		35		742		715		26	i	2,077		2,068		9	
Computer and electronic products	334	37,633		37,370		263		4,159		4,132		27		33,474		33,239		235	
Semiconductor and other electronic components	3344	21,742		21,563		179		2,315		2,305		10		19,427		19,258		169	
Other computer and electronic products	other 334	15,891		15,807		84		1,844		1,827		18		14,047		13,981		66	
Nonmanufacturing industries	21–23, 42–81	74,292		61,652		12,640		12,043		7,690		4,353		62,249		53,963		8,287	
Information	51	46,361		46,162		200		3,968		3,938		30		42,393		42,224		169	
Software publishers	5112	16,904		16,767		138		1,322		1,292		30		15,582		15,475		107	
Other information	other 51	29,457		29,395		62		2,646	i	2,646	i	*	i	26,811	i	26,749	i	62	
Professional, scientific, and technical services	54	20,377		8,036		12,341		6,001		1,733	i	4,267		14,376		6,303		8,073	
Scientific research and development services	5417	13,219		949		12,270		4,356		117	i	4,239		8,863		832	i	8,031	
Other professional, scientific, and technical services	other 54	7,157		7,087		71		1,644	i	1,616	i	28		5,513		5,470		43	

* = amount < \$500,000; i = more than 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = 2017 North American Industry Classification System.

Note(s):
Detail may not add to total because of rounding. Industry classification is based on the dominant business code for domestic R&D performance, where available. For companies that did not report business codes, the classification used for sampling was assigned. Statistics are representative of companies located in the United States that performed or funded \$50,000 or more of R&D.

Source(s):
National Center for Science and Engineering Statistics and Census Bureau, Business Enterprise Research and Development Survey, 2024.