

TABLE 1

Annual Business Survey aggregate R&D estimates, by questionnaire reference and company size, for companies with 1–9 employees in selected industries: 2022

(Thousands of U.S. dollars)

Company and financial information	All companies	1–4 employees	5–9 employees
Number of companies	14,353	9,012	5,341
Total R&D cost	7,616,415	3,573,847	4,042,568
Foreign R&D costs	900,658	537,958	362,700
Domestic R&D costs	6,715,757	3,035,889	3,679,867
Domestic R&D costs for salaries, wages, and fringe benefits	3,690,003	1,546,465	2,143,538
Domestic R&D costs for expensed machinery and equipment (not capitalized)	178,461	82,863	95,599
Domestic R&D costs for materials and supplies	610,277	245,127	365,150
Domestic R&D costs for payments to others for R&D	1,005,187	509,974	495,213
Domestic R&D costs for depreciation on R&D property and equipment	64,854	25,934	38,920
Domestic R&D costs for other costs	1,166,975	625,527	541,448
Domestic R&D performance	5,710,570	2,525,915	3,184,655
Domestic R&D performance paid for by the company	4,397,991	1,993,980	2,404,010
Domestic R&D performance paid for by foreign owner	194,028	89,382	104,646
Domestic R&D performance paid for by another U.S. business	297,357	93,867	203,490
Domestic R&D performance paid for by other businesses located outside the United States	40,302	18,773	21,528 r
Domestic R&D performance paid for by U.S. university or college	20,741	10,977	9,764
Domestic R&D performance paid for by U.S. nonprofit organization	13,423	6,137	7,286
Domestic R&D performance paid for by U.S. federal government	694,536	283,558	410,978
Domestic R&D performance paid for by U.S. state or local government	35,873	24,535	11,338
Domestic R&D performance paid for by all other organizations outside the United States	16,319	4,706	11,614
Domestic R&D performance for basic research	397,004	174,097	222,907
Domestic R&D performance for applied research	2,032,893	937,739	1,095,154
Domestic R&D performance for development	3,280,674	1,414,080	1,866,594
Domestic R&D performance paid for by U.S. federal government for basic research	45,077	18,968	26,109
Domestic R&D performance paid for by U.S. federal government for applied research	339,881	148,458	191,424
Domestic R&D performance paid for by U.S. federal government for development	309,578	116,132	193,446
Total capital expenditures	11,404,691	6,292,055 r	5,112,637
Total capital expenditures for R&D operations	340,811	163,402	177,409
Capital expenditures for R&D operations for land acquisition	327	238 r	89
Capital expenditures for R&D operations for buildings and land improvement	8,868	4,463	4,405
Capital expenditures for R&D operations for machinery and equipment	155,636	67,657	87,979
Capital expenditures for R&D operations for capitalized software	40,324	22,904	17,420
Capital expenditures for R&D operations for other intellectual property	37,277	19,589	17,688
Capital expenditures for R&D operations for all other costs	98,378	48,551	49,827

r = relative standard error > 50%.

Note(s):

Detail may not add to total because of rounding. Statistics are representative of companies located in the United States that performed or funded R&D. Selected industries include the 2017 North American Industry Classification System sectors 31, 32, 33, 42, and 51 and industries 5413, 5415, and 5417.

Source(s):

National Center for Science and Engineering Statistics and Census Bureau, 2023 Annual Business Survey: Data Year 2022.