

Table 1**Funds spent for business R&D performed in the United States, by type of R&D, source of funds, and size of company: 2019–22**

(Millions of dollars)

Selected characteristic and company size	2019	2020	2021	2022
Domestic R&D performance ^a	492,956	537,619	602,499	691,547
Type of R&D ^b				
Basic research	32,239	36,017	40,130	42,957
Applied research	74,031	76,088	86,485	100,654
Development	386,686	425,514	475,884	547,935
Paid for by the company ^c	428,968	466,162	527,804	608,058
Basic research	25,916	29,330	32,763	35,918
Applied research	59,697	60,620	69,130	80,834
Development	343,355	376,213	425,912	491,307
Paid for by others	63,989	71,457	74,695	83,489
Basic research	6,324	6,688	7,367	7,040
Applied research	14,333	15,468	17,355	19,821
Development	43,332	49,301	49,972	56,629
Source of funds				
Federal	21,941	28,905	23,582	31,626
Other ^d	42,048	42,552	51,113	51,863
Size of company (number of domestic employees)				
Small companies				
10–19 ^e	5,501	5,047	5,477	5,277
20–49	12,418	12,994	15,061	14,695
Medium companies				
50–99	14,021	12,993	14,540	15,265
100–249	19,793	25,411	24,023	27,847
Large companies				
250–499	18,883	20,878	23,932	29,549
500–999	23,969	21,264	27,432	31,802
1,000–4,999	75,671	88,238	94,615	104,505
5,000–9,999	50,811	48,397	62,817	58,709
10,000–24,999	88,263	88,567	104,607	121,142
25,000 or more	183,626	213,829	229,995	282,756

i = more than 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

^a Domestic R&D performance is the cost of R&D paid for and performed by the respondent company and paid for by others outside of the company and performed by the respondent company.^b R&D comprises creative and systematic work undertaken in order to increase the stock of knowledge and to devise new applications of available knowledge. This includes (1) activities aimed at acquiring new knowledge or understanding without specific immediate commercial applications or uses (basic research), (2) activities aimed at solving a specific problem or meeting a specific commercial objective (applied research), and (3) systematic work, drawing on research and practical experience and resulting in additional knowledge, which is directed to producing new processes or to improving existing products—goods or services—or processes (development).^c Paid for by the company includes foreign subsidiaries of U.S. companies.^d Other includes companies located inside and outside the United States; U.S. state government agencies and laboratories; U.S. universities, colleges, and academic researchers; and all other organizations located inside and outside the United States.^e The Business Enterprise Research and Development Survey does not include companies with fewer than 10 domestic employees.**Note(s):**

Detail may not add to total because of rounding.

Source(s):

National Center for Science and Engineering Statistics and Census Bureau, Business Enterprise Research and Development Survey.