

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: 2018–21**

(Millions of dollars)

Selected characteristic and company size	2018	2019	2020	2021
Domestic R&D performance ^a	441,036	492,956	537,619	602,499
Type of R&D ^b				
Basic research	28,980	32,239	36,017	40,130
Applied research	65,222	74,031	76,088	86,485
Development	346,834	386,686	425,514	475,884
Paid for by the company ^c	377,806	428,968	466,162	527,804
Basic research	22,312	25,916	29,330	32,763
Applied research	53,229	59,697	60,620	69,130
Development	302,264	343,355	376,213	425,912
Paid for by others	63,230	63,989	71,457	74,695
Basic research	6,668	6,324	6,688	7,367
Applied research	11,993	14,333	15,468	17,355
Development	44,570	43,332	49,301	49,972
Source of funds				
Federal	24,685	21,941	28,905	23,582
Other ^d	38,545	42,048	42,552	51,113
Size of company (number of domestic employees)				
Small companies ^e				
10–19	4,390	5,501	5,047	5,477
20–49	11,252	12,418	12,994	15,061
Medium companies				
50–99	12,321	14,021	12,993	14,540
100–249	18,547	19,793	25,411	24,023
Large companies				
250–499	19,645	18,883	20,878	23,932
500–999	17,657	23,969	21,264	27,432
1,000–4,999	68,578	75,671	88,238	94,615
5,000–9,999	45,337	50,811	48,397	62,817
10,000–24,999	84,420	88,263	88,567	104,607
25,000 or more	158,889	183,626	213,829	229,995

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 Includes foreign subsidiaries of U.S. companies.^d 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 Includes only companies with 10 or more 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.