

**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: 2017–18**

(Millions of U.S. dollars)

Selected characteristic and company size	2017	2018
Domestic R&D performance <sup>a</sup>	400,100	441,036
Type of R&D <sup>b</sup>		
Basic research	24,829	28,980
Applied research	62,132	65,222
Development	313,139	346,834
Paid for by the company <sup>c</sup>	339,036	377,806
Basic research	18,732	22,312
Applied research	49,149	53,229
Development	271,155	302,264
Paid for by others	61,065	63,230
Basic research	6,097	6,668
Applied research	12,984	11,993
Development	41,984	44,570
Source of funds		
Federal	24,277	i 24,685
Other <sup>d</sup>	36,788	38,545
Size of company (number of domestic employees)		
Small companies <sup>e</sup>		
10–19	3,311	4,390
20–49	9,435	11,252
Medium companies		
50–99	10,141	12,321
100–249	17,216	18,547
Large companies		
250–499	14,103	19,645
500–999	17,871	17,657
1,000–4,999	65,112	68,578
5,000–9,999	40,198	45,337
10,000–24,999	73,485	84,420
25,000 or more	149,227	158,889

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

<sup>a</sup> 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 company.

<sup>b</sup> R&D is planned, creative work aimed at discovering new knowledge or devising 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).

<sup>c</sup> Includes foreign subsidiaries of U.S. companies.

<sup>d</sup> 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.

<sup>e</sup> The Business 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. Beginning in survey year 2018, companies that performed or funded less than \$50,000 of R&D were excluded from tabulation. These companies in aggregate represented a very small share of total R&D expenditures in prior years. Had the companies under this threshold been included in the 2018 estimates, they would have contributed approximately \$90 million to overall R&D expenditures. Excludes data for federally funded research and development centers.

**Source(s)**

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