

Table RD-4

**U.S. R&D expenditures, by type of R&D: Selected years, 2000–20**

(Billions of current dollars, constant 2012 dollars, and percent distribution)

Type of R&D	2000	2010	2012	2013	2014	2015	2016	2017	2018	2019	2020 <sup>a</sup>
Billions of current dollars											
All R&D	267.9	406.6	433.7	454.3	476.0	494.5	521.7	554.0	604.8	666.9	708.0
Basic research	42.0	76.3	73.8	79.1	82.8	84.3	85.7	88.7	96.0	102.9	107.9
Applied research	56.5	79.1	86.8	88.2	91.8	97.2	110.5	114.1	119.8	132.0	139.5
Development	169.4	251.2	273.1	287.0	301.4	313.0	325.5	351.2	389.0	432.0	460.5
Billions of constant 2012 dollars											
All R&D	343.2	423.1	433.7	446.5	459.2	472.3	493.4	514.2	548.3	593.9	623.0
Basic research	53.8	79.4	73.8	77.8	79.9	80.5	81.0	82.3	87.1	91.6	94.9
Applied research	72.4	82.3	86.8	86.6	88.5	92.9	104.5	105.9	108.6	117.6	122.8
Development	217.0	261.4	273.1	282.0	290.8	299.0	307.9	326.0	352.6	384.7	405.2
Percent distribution											
All R&D	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Basic research	15.7	18.8	17.0	17.4	17.4	17.0	16.4	16.0	15.9	15.4	15.2
Applied research	21.1	19.4	20.0	19.4	19.3	19.7	21.2	20.6	19.8	19.8	19.7
Development	63.2	61.8	63.0	63.2	63.3	63.3	62.4	63.4	64.3	64.8	65.1

<sup>a</sup> The data for 2020 include estimates and are likely to later be revised.**Note(s):**

Data throughout the time series reported here are consistently based on the Organisation for Economic Co-operation and Development's *Frascati Manual* (OECD 2015) definitions for basic research, applied research, and experimental development. Prior to 2010, however, some changes were introduced in the questionnaires of the sectoral expenditure surveys to improve the accuracy of respondents' classification of their R&D by type. Accordingly, small percentage changes in the historical data may not be meaningful.

**Source(s):**

National Center for Science and Engineering Statistics, National Patterns of R&amp;D Resources (2019–20 edition).

*Science and Engineering Indicators*