

Table RD-3

U.S. R&D expenditures, by type of R&D: Selected years, 2000–22

(Billions of current dollars, billions of constant 2017 dollars, and percent distribution)

Type of R&D	2000	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021 ^a	2022 ^b
Billions of current dollars														
All R&D	267.9	406.6	426.2	433.7	454.2	475.9	494.5	521.7	553.6	604.0	665.6	716.9	789.1	885.6
Basic research	42.0	76.5	73.7	74.0	79.3	82.9	84.4	87.5	90.2	97.9	105.0	111.8	118.6	129.4
Applied research	56.5	78.9	81.7	86.6	88.0	91.6	97.1	109.5	113.3	118.3	130.2	132.5	144.0	159.9
Experimental development	169.4	251.2	270.8	273.1	287.0	301.4	313.0	324.7	350.1	387.8	430.3	472.5	526.4	596.2
Billions of constant 2017 dollars														
All R&D	368.5	453.6	465.9	465.4	479.3	493.6	508.1	531.0	553.6	590.5	639.9	680.3	716.0	750.6
Basic research	57.8	85.3	80.6	79.4	83.6	86.0	86.8	89.1	90.2	95.7	101.0	106.1	107.6	109.7
Applied research	77.7	88.0	89.3	93.0	92.8	95.0	99.7	111.4	113.3	115.7	125.2	125.8	130.7	135.6
Experimental development	233.0	280.3	296.0	293.1	302.8	312.6	321.6	330.5	350.1	379.1	413.7	448.4	477.6	505.4
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	100.0	100.0	100.0
Basic research	15.7	18.8	17.3	17.1	17.4	17.4	17.1	16.8	16.3	16.2	15.8	15.6	15.0	14.6
Applied research	21.1	19.4	19.2	20.0	19.4	19.2	19.6	21.0	20.5	19.6	19.6	18.5	18.3	18.1
Experimental development	63.2	61.8	63.5	63.0	63.2	63.3	63.3	62.2	63.2	64.2	64.7	65.9	66.7	67.3

^a Some data for 2021 are preliminary and may be revised later.^b The data for 2022 are estimates and are likely to be revised later.**Note(s):**

Data throughout the time series reported here are consistently based on the Organisation for Economic Co-operation and Development's *Frascati Manual 2015* (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&D Resources (2021–22 edition).

Science and Engineering Indicators