

**Table 4****U.S. R&D expenditures, by type of R&D: selected years, 2000–20**

(Billions of current and constant 2012 dollars and percent)

Type of work	2000	2010	2012	2013	2014	2015	2016	2017	2018	2019	2020 <sup>a</sup>
Current \$billions											
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	76.4	73.8	79.1	82.8	84.3	85.7	88.7	96.0	102.9	107.9
Applied research	56.5	79.0	86.8	88.2	91.8	97.2	110.5	114.1	119.8	132.0	139.5
Experimental development	169.4	251.2	273.1	287.0	301.4	313.0	325.5	351.2	389.0	432.0	460.5
Constant 2012 \$billions											
All R&D	343.4	422.8	433.7	446.5	459.2	472.3	493.4	514.2	548.3	593.9	623.0
Basic research	53.9	79.4	73.8	77.8	79.9	80.5	81.0	82.3	87.1	91.6	94.9
Applied research	72.4	82.2	86.8	86.6	88.5	92.9	104.5	105.9	108.6	117.6	122.8
Experimental development	217.1	261.2	273.1	282.0	290.8	299.0	307.9	326.0	352.6	384.7	405.2
Percent share of total											
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
Experimental 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 span of time reported here are consistently based on Organisation for Economic Co-operation and Development *Frascati Manual* definitions for basic research, applied research, and experimental development. Prior to 2010, however, some changes had been 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 (annual series).