

Table RD-8

**Gross expenditures on R&D for selected countries, by type of R&D: 2019 or most recent year**

(Billions of U.S. PPP dollars and percent share)

Country	GERD (PPP US\$billions)	Basic <sup>a</sup>	Applied	Experimental development	Capital expenditures nec <sup>b</sup>
Billions of U.S. PPP dollars					
United States (2019) <sup>c</sup>	668.4	102.9	132.0	432.0	1.5
China (2019)	525.7	31.7	59.3	434.7	0.0
Japan (2019)	173.3	21.7	32.2	112.3	7.2
Germany (2019)	148.1	NA	NA	NA	NA
South Korea (2019)	102.5	15.0	23.1	64.4	0.0
France (2018)	68.6	15.6	28.3	24.7	0.0
India (2017)	55.1	7.9	12.2	10.8	24.2
United Kingdom (2018)	54.2	9.9	22.8	21.5	0.0
Percent share of total					
United States (2019)	100.0	15.4	19.8	64.6	0.2
China (2019)	100.0	6.0	11.3	82.7	0.0
Japan (2019)	100.0	12.5	18.6	64.8	4.1
Germany (2019)	NA	NA	NA	NA	NA
South Korea (2019)	100.0	14.7	22.5	62.8	0.0
France (2018)	100.0	22.7	41.3	36.1	0.0
India (2017)	100.0	14.4	22.2	19.5	43.8
United Kingdom (2018)	100.0	18.3	42.1	39.7	0.0

NA = not available.

GERD = gross domestic expenditure on R&amp;D; nec = not elsewhere classified; PPP = purchasing power parity.

<sup>a</sup> Expressed as a share of GDP, the country expenditures for basic research are United States (0.49%), China (0.12%), Japan (0.41%), Germany (NA), South Korea (0.64%), France (0.50%), India (0.09%), and United Kingdom (0.32%).<sup>b</sup> This category includes capital expenditures nec. Capital expenditures are the annual gross amount paid for the acquisition of fixed assets such as R&D plant and equipment.<sup>c</sup> Data for U.S. GERD differ slightly from the U.S. total R&D data tabulated earlier in this report. For better consistency with international standards, U.S. GERD includes federal capital funding for federal intramural and nonprofit R&D in addition to what is reported as U.S. total R&D.**Note(s):**

Table shows the top eight R&amp;D-performing countries in 2019. Year of data is listed in parentheses. Detail may not add to total because of rounding. Data are not presently available for Germany.

**Source(s):**National Center for Science and Engineering Statistics, National Patterns of R&D Resources (2019–20 edition); Organisation for Economic Co-operation and Development, *Main Science and Technology Indicators* (September 2021 edition); United Nations Educational, Scientific and Cultural Organization, Institute for Statistics, Science Technology and Innovation data set (March 2021 release).*Science and Engineering Indicators*