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Government expenditure on research and development in selected OECD countries, by various criteria¹

Budget appropriations							
Government expenditure on R&D	Year	Germany	Belgium	Denmark	Finland	Israel ²	Japan ³
1.a) Total R&D expenditure	2020	52,588.0	4,750.1	3,540.7	2,850.7	2,518.4	91,421.3
in Millions of US-\$ PPP ⁶	2021	57,240.3	5,090.1	3,677.3	2,828.0	2,410.3	82,437.5
	2022	61,676.6	5,397.7	3,713.9	3,076.8	2,725.2	100,416.9
	2023	60,711.7	5,276.4	3,817.4	2,962.2	2,885.9	99,404.3
	2024	60,041.1	-	-	-	-	-
1.b) Civil R&D expenditure	2020	50,379.8	4,716.7	3,529.2	2,794.4	-	90,150.5
in Millions of US-\$ PPP ⁶	2021	54,834.6	5,051.5	3,664.4	2,767.7	-	81,289.2
	2022	58,406.2	5,339.2	3,699.7	3,017.4	-	98,676.0
	2023	58,022.5	5,211.6	3,801.3	2,899.8	-	97,095.9
	2024	55,391.1	-	-	-	-	-
2. Average annual growth of R&D expenditure (in %) ⁷							
a) Total expenditure	2020 to						
	2024	3.4	3.6	2.5	1.3	4.6	2.8
b) Civil R&D expenditure	2020 to						
	2024	2.4	3.4	2.5	1.2	-	2.5
3. Total R&D expenditure per capita in US-\$ PPP ⁶	2020	632.4	411.7	607.4	515.4	273.3	727.2
	2021	688.0	439.3	628.1	510.3	257.3	656.9
	2022	736.0	462.1	628.8	553.7	285.3	803.7
	2023	718.4	447.9	641.8	531.1	295.8	799.4
	2024	708.7	-	-	-	-	-
4. Total R&D expenditure as a percentage of the nominal gross domestic product	2020	1.08	0.73	0.97	0.97	0.67	1.71
	2021	1.10	0.72	0.90	0.90	0.56	1.48
	2022	1.09	0.68	0.81	0.90	0.53	1.69
	2023	1.05	0.65	0.87	0.86	0.55	1.60
	2024	1.02	-	-	-	-	-
5. Average annual growth of the nominal gross domestic product ⁷	2020 to						
	2024	4.8	6.8	6.2	4.5	9.5	5.1

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Budget appropriations							
Government expenditure on R&D	Year	Austria ⁴	Sweden ⁵	Switzerland	South Korea	United Kingdom	United States
1.a) Total R&D expenditure	2020	4,510.3	4,560.0	6,576.2	29,246.4	21,432.5	169,901.0
in Millions of US-\$ PPP ⁶	2021	4,538.9	5,104.5	6,976.4	33,146.5	20,969.6	161,885.0
	2022	5,147.6	5,164.0	7,766.4	36,142.0	24,273.9	186,876.0
	2023	5,569.9	5,117.8	7,845.2	37,515.8	-	198,941.0
	2024	6,231.1	5,493.3	-	-	-	203,919.0
1.b) Civil R&D expenditure	2020	4,503.6	4,445.1	6,549.1	24,384.6	19,787.7	89,806.0
in Millions of US-\$ PPP ⁶	2021	4,532.9	4,992.3	6,936.3	27,959.2	18,216.7	85,501.0
	2022	5,138.0	5,038.6	7,724.1	30,604.4	21,036.4	103,533.9
	2023	5,560.4	4,957.7	7,809.7	31,536.3	-	96,181.0
	2024	6,215.2	5,224.7	-	-	-	97,261.0
2. Average annual growth of R&D expenditure (in %) ⁷							
a) Total expenditure	2020 to						
	2024	8.4	4.8	6.1	8.7	6.4	4.7
b) Civil R&D expenditure	2020 to						
	2024	8.4	4.1	6.0	9.0	3.1	2.0
3. Total R&D expenditure per capita in US-\$ PPP ⁶	2020	505.8	440.4	760.8	564.2	321.1	512.1
	2021	507.1	490.1	801.1	640.3	313.1	487.1
	2022	568.6	490.5	884.3	699.4	359.1	560.2
	2023	610.0	482.8	880.0	725.5	-	593.5
	2024	678.7	516.4	-	-	-	-
4. Total R&D expenditure as a percentage of the nominal gross domestic product	2020	0.86	0.77	1.04	1.18	0.67	0.80
	2021	0.80	0.78	0.99	1.24	0.61	0.68
	2022	0.80	0.74	0.97	1.27	0.61	0.72
	2023	0.87	0.72	0.98	1.29	-	0.72
	2024	0.96	-	-	-	-	-
5. Average annual growth of the nominal gross domestic product ⁷	2020 to						
	2024	5.7	3.3	8.5	5.3	6.3	9.1

1 Some figures are revised, provisional, estimated or only partly comparable with figures from previous years (see original edition of "Main Science and Technology Indicators March 2025").

2 Defence R&D is excluded.

3 GBARD data represent the budget for science and technology. Military procurement contracts are excluded from defence GBARD.

4 Definition differs.

5 Data exclude funding by public research foundations. Starting in 2023, a new method for compiling GBARD based entirely on administrative data and R&D survey coefficients has been implemented, resulting in a time series break and an estimated increase of total GBARD.

6 Nominal expenditure converted into US dollar purchasing power parities.

7 The figures are based on years for that data are available.

Last update: April 16, 2025

Source: OECD (Main Science and Technology Indicators March 2025) and calculations of the German Centre for Higher Education Research and Science Studies

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