

**Table 45. Higher education expenditure on R&D (HERD) at 2015 prices and PPP**

Million 2015 USD

	2005	2016	2017	2018	2019	2020	2021
Australia	..	7 114.8	7 216.6 <sup>e</sup>	7 552.8	7 763.2 <sup>e</sup>	7 524.1	..
Austria	2 247.9 <sup>e</sup>	3 043.8 <sup>b,e</sup>	3 082.6	3 193.8 <sup>e</sup>	3 190.6	3 128.6 <sup>e</sup>	3 258.3 <sup>e</sup>
Belgium	1 812.6	2 816.1	2 835.0	2 874.3	2 941.1	2 988.6 <sup>e</sup>	2 764.1 <sup>p</sup>
Canada	9 157.4	10 949.5	11 228.6	11 626.9	11 948.4	11 803.9	11 496.1 <sup>p</sup>
Chile	..	659.2 <sup>b,p</sup>	684.2	755.0 <sup>e</sup>	736.1 <sup>e</sup>	660.4 <sup>e</sup>	..
Colombia	319.2	500.4	490.8	602.9	529.7	391.6	..
Czech Republic	626.7	1 251.9	1 338.3	1 623.3	1 722.1	1 662.8	1 625.3 <sup>p</sup>
Denmark	1 524.9	2 881.0	2 881.5	3 009.9	3 064.6	3 083.4	3 019.2 <sup>p</sup>
Estonia	126.3	174.8	211.9	273.0	259.5	263.6	285.3 <sup>p</sup>
Finland	1 401.8	1 639.8	1 710.9	1 737.9	1 797.5	1 766.7	1 758.3
France	9 577.1	12 546.1	12 756.1	12 863.6	12 852.1	12 583.1	12 876.5
Germany	13 798.2	21 087.7 <sup>b</sup>	21 594.5	22 538.3	22 996.7	23 517.4	23 563.7 <sup>p</sup>
Greece	991.6	923.7	949.9	1 020.3	1 178.5	1 315.8	1 304.2 <sup>p</sup>
Hungary	554.4 <sup>d</sup>	354.5 <sup>d</sup>	492.1 <sup>d</sup>	567.5 <sup>b,d</sup>	649.6 <sup>d</sup>	612.4 <sup>d</sup>	720.1 <sup>d</sup>
Iceland	79.3	112.6	118.3	119.2	126.5	128.0	134.6
Ireland	747.0	918.1	988.4 <sup>e</sup>	1 051.2 <sup>p</sup>	1 100.2 <sup>e,p</sup>	1 222.7 <sup>e,p</sup>	870.6 <sup>b,p</sup>
Israel	1 180.6 <sup>d</sup>	1 543.0 <sup>d</sup>	1 468.1 <sup>d</sup>	1 553.5 <sup>d</sup>	1 565.1 <sup>d</sup>	1 524.4 <sup>d</sup>	1 502.5 <sup>d,e</sup>
Italy	7 420.4 <sup>b</sup>	7 491.8 <sup>e</sup>	7 453.3 <sup>e</sup>	7 565.0 <sup>e</sup>	7 682.4 <sup>e</sup>	7 410.1 <sup>e</sup>	7 892.2 <sup>e</sup>
Japan	20 762.9	20 048.3	20 261.4	19 950.4 <sup>b</sup>	20 092.4	19 549.7	20 427.5
Korea	3 374.4 <sup>d</sup>	7 249.6	7 475.3	7 848.9	8 276.0	9 233.7	10 062.6
Latvia	91.3	96.2	124.6	181.6	194.3	188.1	186.3 <sup>p</sup>
Lithuania	268.1	281.6	283.1	313.4	352.1	411.2	402.3
Luxembourg	11.3	155.7	164.9	160.5	175.0	166.2 <sup>e,p</sup>	181.9 <sup>e,p</sup>
Mexico	2 051.5	4 473.8	3 853.7 <sup>e</sup>	3 755.0 <sup>e</sup>	3 437.2 <sup>e</sup>	3 308.6 <sup>e</sup>	..
Netherlands	4 711.9	5 289.7	5 469.0	5 432.5	5 634.8	5 801.2	5 722.2 <sup>p</sup>
New Zealand	502.8	..	618.2	..	666.3 <sup>p</sup>	..	..
Norway	1 251.3	2 037.1	2 251.3	2 355.1	2 395.9	2 268.4	2 310.3
Poland	1 239.1	3 187.0	3 762.9	4 462.7	5 748.8	5 792.9	6 358.9 <sup>p</sup>
Portugal	834.3	1 795.2	1 820.7	1 874.5	1 934.9	1 825.5	1 859.6 <sup>p</sup>
Slovak Republic	113.4	363.2	373.3	361.0	377.9	414.5	430.2
Slovenia	138.4	146.5	147.5	171.0	183.5	191.3	207.6 <sup>p</sup>
Spain	4 939.3	5 471.7	5 638.3	5 769.3	5 968.1	5 982.7	6 383.9 <sup>p</sup>
Sweden	2 923.2	4 277.5 <sup>e</sup>	4 223.9	4 318.5 <sup>e</sup>	4 199.9 <sup>b</sup>	4 137.4	4 249.3
Switzerland	..	..	5 079.3	..	5 361.5	..	..
Türkiye	3 786.0	7 115.4	7 180.0	7 191.5	7 250.2	7 352.3	7 102.8
United Kingdom	9 796.5	10 923.2	11 339.3	19 126.0 <sup>b</sup>	18 757.0	17 547.0	..
United States	54 424.8 <sup>d</sup>	67 119.3 <sup>d</sup>	69 095.8 <sup>d</sup>	71 045.0 <sup>d</sup>	72 839.0 <sup>d</sup>	74 381.3 <sup>d</sup>	73 994.7 <sup>d,p</sup>
EU27 (from 01/02/2020)	56 700.6 <sup>e</sup>	76 882.0 <sup>e</sup>	78 983.2 <sup>e</sup>	82 131.9 <sup>e</sup>	85 079.3 <sup>e</sup>	85 314.3 <sup>e</sup>	86 893.9 <sup>e</sup>
<b>OECD-Total</b>	<b>175 939.2<sup>e</sup></b>	<b>228 191.8<sup>e</sup></b>	<b>233 436.9<sup>e</sup></b>	<b>240 725.1<sup>e</sup></b>	<b>245 949.1<sup>e</sup></b>	<b>246 572.7<sup>e</sup></b>	<b>247 536.9<sup>e</sup></b>
Argentina	689.8	1 161.8	1 225.1	1 111.5	980.5	924.5	..
China	9 199.8	27 317.0	30 942.7	34 428.7	..	..	..
Romania	182.5	244.1	257.5	247.0	255.6	207.0	232.6 <sup>p</sup>
Russian Federation	1 562.3	3 546.1	3 601.2	3 543.2	4 165.6	3 970.9 <sup>e</sup>	..
Singapore	1 449.1	3 180.1	2 925.0	2 807.8	2 843.3	2 773.1	..
South Africa	892.1	1 867.0	1 979.0	1 929.8	1 995.3	..	..
Chinese Taipei	2 060.5	3 264.7	3 334.9	3 562.9	3 603.9	3 591.4	3 522.2

Note: Detailed metadata: <http://metalinks.oecd.org/msti/20230612/d19a>

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Source: OECD, Main Science and Technology Indicators database