

**European patent applications1**  
Portugal in comparison with other countries

Origin	2020	2021	% change 2021 vs. 2020	Share of total applications in 2021
<b>PORTUGAL</b>	<b>251</b>	<b>286</b>	<b>13.9%</b>	<b>0.2%</b>
<b>EPO states2</b>	<b>81,531</b>	<b>83,775</b>	<b>2.8%</b>	<b>44%</b>
<b>All countries</b>	<b>180,417</b>	<b>188,600</b>	<b>4.5%</b>	

**European patent applications1**  
Development in the number of applications from Portugal over the last 10 years

	2012	2013	2013/2012	2014	2014/2013	2015	2015/2014	2016	2016/2015	2017	2017/2016	2018	2018/2017	2019	2019/2018	2020	2020/2019	2021	2021/2020	Share of total applications in 2021
<b>PORTUGAL</b>	76	95	25.0%	113	18.9%	141	24.8%	157	11.3%	150	-4.5%	221	47.3%	272	23.1%	251	-7.7%	286	13.9%	0.2%
<b>Total applications</b>	<b>148,562</b>	<b>148,027</b>	<b>-0.4%</b>	<b>152,703</b>	<b>3.2%</b>	<b>160,004</b>	<b>4.8%</b>	<b>159,087</b>	<b>-0.6%</b>	<b>166,594</b>	<b>4.7%</b>	<b>174,481</b>	<b>4.7%</b>	<b>181,532</b>	<b>4.0%</b>	<b>180,417</b>	<b>-0.6%</b>	<b>188,600</b>	<b>4.5%</b>	

**European patent grants3**  
Development in the number of patents granted to applicants from Portugal over the last 10 years

	2012	2013	2013/2012	2014	2014/2013	2015	2015/2014	2016	2016/2015	2017	2017/2016	2018	2018/2017	2019	2019/2018	2020	2020/2019	2021	2021/2020	Share of total patent grants in 2021
<b>PORTUGAL</b>	30	26	-13.3%	22	-15.4%	46	109.1%	59	28.3%	68	15.3%	90	32.4%	110	22.2%	119	8.2%	116	-2.5%	0.1%
<b>Total patents granted</b>	<b>65,655</b>	<b>66,712</b>	<b>1.6%</b>	<b>64,613</b>	<b>-3.1%</b>	<b>68,419</b>	<b>5.9%</b>	<b>95,940</b>	<b>40.2%</b>	<b>105,635</b>	<b>10.1%</b>	<b>127,625</b>	<b>20.8%</b>	<b>137,784</b>	<b>8.0%</b>	<b>133,715</b>	<b>-3.0%</b>	<b>108,799</b>	<b>-18.6%</b>	

**European patent applications1**  
Top technology fields4 - Portugal

TECHNOLOGY FIELD	2020	2021	2021/2020
1 Computer technology	10	32	220.0%
2 Biotechnology	17	31	82.4%
3 Medical technology	30	29	-3.3%
4 Transport	7	15	114.3%
4 Furniture, games	7	15	114.3%
6 Measurement	15	13	-13.3%
6 Pharmaceuticals	25	13	-48.0%
8 Food chemistry	8	10	25.0%
9 Electrical machinery, apparatus, energy	5	9	80.0%
9 Basic materials chemistry	6	9	50.0%
9 Civil engineering	9	9	0.0%
12 IT methods for management	4	8	100.0%
12 Organic fine chemistry	7	8	14.3%
12 Environmental technology	5	8	60.0%
12 Other special machines	11	8	-27.3%

**European patent applications1**  
Ranking according to number of applications per mio inhabitants

	Rank	Country5	Applications	Population6	Applications per mio.
	1	Switzerland	8,442	8,715	968.6
	2	Sweden	4,954	10,160	487.6
	3	Denmark	2,642	5,813	454.5
	4	Netherlands	6,581	17,173	383.2
	5	Finland	2,111	5,548	380.5
	6	Germany	25,969	83,900	309.5
	7	Austria	2,317	9,043	256.2
	8	Belgium	2,485	11,632	213.6
	9	Israel	1,717	8,790	195.3
	10	Ireland	956	4,983	191.9
	11	Korea, Republic of	9,394	51,305	183.1
	12	Japan	21,681	126,051	172.0
	13	France	10,537	65,426	161.1
	14	United States	46,533	332,915	139.8
	15	Singapore	711	5,897	120.6
	16	Norway	640	5,466	117.1
	17	United Kingdom	5,627	68,207	82.5
	18	Italy	4,919	60,367	81.5
	19	Chinese Taipei	1,472	23,855	61.7
	20	Slovenia	116	2,079	55.8
	21	Canada	2,083	38,068	54.7
	22	Estonia	69	1,325	52.1
	23	New Zealand	226	4,861	46.5
	24	Spain	1,954	46,745	41.8
	25	Australia	1,019	25,788	39.5
	26	Cyprus	44	1,216	36.2
	27	Portugal	286	10,168	28.1
	28	Puerto Rico	78	2,828	27.6
	29	Lithuania	73	2,690	27.1
	30	Hong Kong SAR (China)	180	7,553	23.8

**European patent applications1**  
Top Portuguese applicants7

COMPANY	2021
1 FEEDZAI - CONSULTADORA E INOVAÇÃO TECNOLÓGICA, S.A.	17
2 UNIVERSIDADE DO MINHO	13
3 SWORD HEALTH S.A.	12
4 NOVADELTA - COMÉRCIO E INDÚSTRIA DE CAFÉS, LDA	11
5 UNIVERSIDADE DO PORTO	9
6 INSTITUTO POLITÉCNICO DE LEIRIA	7
6 UNIVERSIDADE DE AVEIRO	7
8 OLI - SISTEMAS SANITARIOS, S.A.	6
8 RAIZ - INSTITUTO DE INVESTIGAÇÃO DA FLORESTA E PAPEL	6
10 ABYSSAL S.A.	5
10 CIIMAR - CENTRO INTERDISCIPLINAR DE INVESTIGAÇÃO MARINHA E AMBIENTAL	5
10 INL - INTERNATIONAL IBERIAN NANOTECHNOLOGY LABORATORY	5
10 UNIVERSIDADE DE COIMBRA	5
10 UNIVERSIDADE NOVA DE LISBOA	5

Source: EPO.  
Status: 1.2.2022.

1 European patent applications include direct European applications and international (PCT) applications that entered the European phase during the reporting period.  
2 EPO states: the 38 member states of the European Patent Organisation, which includes the 27 states of the EU.  
3 The analysis is based on published patents granted by the EPO.  
4 The definition of the fields is based on the WIPO IPC technology concordance. The table is available at: [https://www.wipo.int/ipstats/en/statistics/patents/xls/ipc\\_technology.xlsx](https://www.wipo.int/ipstats/en/statistics/patents/xls/ipc_technology.xlsx)  
5 The geographic origin is based on the country of residence of the first applicant listed on the application form (first-named applicant principle). In cases where several applicants are mentioned on the application form, the country of residence of the first applicant listed applies.  
6 Source of population figures: United Nations, Department of Economic and Social Affairs, Population Division.  
7 This is the ranking of the main consolidated applicants at the EPO in 2021 (first-named applicant principle). It is based on European patent applications filed with the EPO, which include direct European applications and international (PCT) applications that entered the European phase during the reporting period.  
Applications by identifiable subsidiaries, not necessarily located in the same country, are allocated to the consolidated applicants. The countries refer to the country of residence of the headquarters.