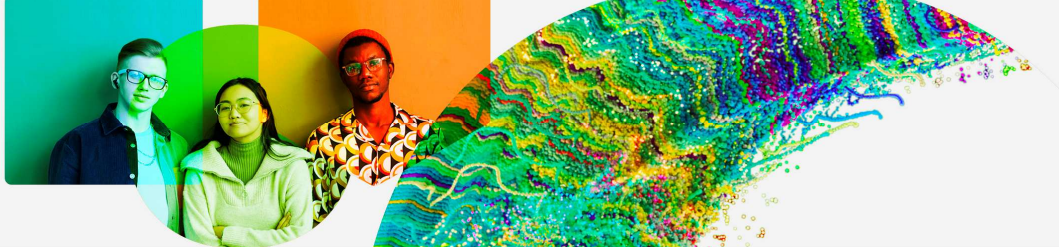


# Global Innovation Index 2024



## Barcelona, Spain

Barcelona is the second-ranked cluster, out of 2 Spanish clusters, that falls within the top 100 S&T clusters in 2024. It filed **463 PCT applications** and published **6,036 scientific articles**, both per 1 million inhabitants over the last five years, making it the:

**55<sup>th</sup>** largest science and technology cluster in 2024

**75<sup>th</sup>** S&T cluster by intensity (relative to population density) in 2024

### Top PCT applicants

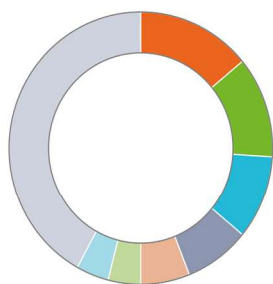
		Patents	Share
1	HEWLETT-PACKARD	712	30%
2	CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS (CSIC)	45	2%
3	UNIVERSITAT POLITECNICA DE CATALUNYA	33	1%

### Top publishing organizations

		Articles	Share
1	UNIVERSITY OF BARCELONA	4,546	15%
2	AUTONOMOUS UNIVERSITY OF BARCELONA	3,912	13%
3	POLYTECHNIC UNIVERSITY OF CATALONIA	2,537	8%

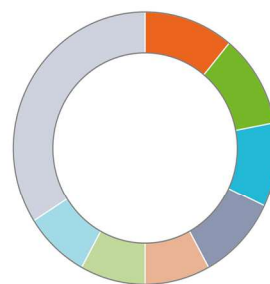
### Top technology fields in Barcelona

Patents



Other machines (14%)	Computer tech. (6%)
Textile and paper machines (12%)	Biotech. (4%)
Pharma (10%)	Handling (4%)
Medical tech. (8%)	Other (42%)

Publications



Clinical medicine (11%)	Engineering (8%)
Technology (11%)	Physics & math (8%)
Earth sciences (10%)	Biochem. & biotech. (8%)
Chemistry (10%)	Other (34%)

**23%** of Barcelona's PCT patent applications are filed in collaboration with other inventors, with **Madrid, San Jose-San Francisco** and **Portland** emerging as the top collaborative locations.

**68%** of Barcelona's scientific articles are published in collaboration with other organizations, with the top three collaborating locations being **Madrid, London** and **Paris**.