Global Innovation Index 2023



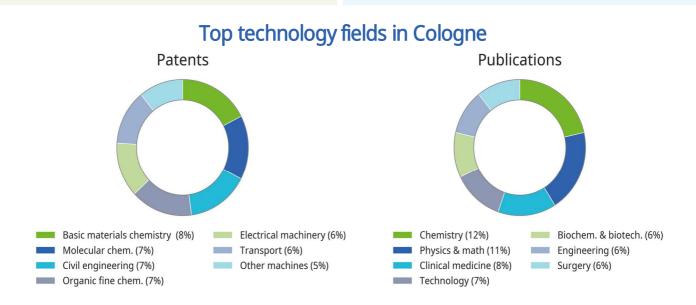
Cologne, Germany

Cologne is the second-ranked cluster, out of 9 German clusters, that falls within the top 100 S&T clusters in 2023. It filed **775 PCT applications** and published **3**,558 scientific articles, both per 1 million inhabitants over the last five years, making it the:

25th largest science and technology cluster in 2023 (down two spots from 2022)

79th S&T cluster by intensity (relative to population density) in 2023 (unchanged from 2022)

Top PCT applicants			Top publishing organizations			
		Patents	Share		Articles	Share
1	Henkel	585	8%	1 University of Bonn	5,220	15%
2	Covestro Deutschland	453	6%	2 University of Cologne	4,611	13%
3	Bayer	381	5%	3 Ruhr University Bochum	4,337	13%



29% of Cologne's PCT patent applications are filed in collaboration with other inventors, with Aachen, Frankfurt am Main and Berlin emerging as the top collaborative locations.

69% of Cologne's scientific articles are published in collaboration with other organizations, with the top three collaborating locations being Berlin, Munich and Frankfurt am Main.