



Berlin, Germany

Berlin is the fourth-ranked cluster, out of 9 German clusters, that falls within the top 100 S&T clusters in 2023. It filed **848 PCT applications** and published **7,126 scientific articles**, both per 1 million inhabitants over the last five years, making it the:

43rd largest science and technology cluster in 2023 (down one spot from 2022)

49th S&T cluster by intensity (relative to population density) in 2023 (up two spots from 2022)

Top PCT applicants

		Patents	Share
1	Siemens	397	11%
2	Fraunhofer-Gesellschaft	327	9%
3	Bayer	148	4%

Top publishing organizations

		Articles	Share
1	Humboldt University of Berlin	7,236	24%
2	Technical University of Berlin	3,471	11%
3	Free University of Berlin	3,398	11%

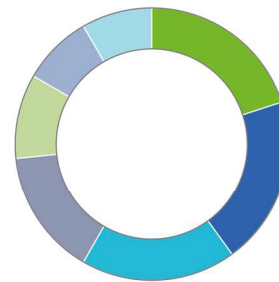
Top technology fields in Berlin

Patents



Electrical machinery (11%)	Measurement (6%)
Medical tech. (10%)	Pharma (6%)
Digital coms. (8%)	Transport (5%)
Computer tech. (6%)	

Publications



Chemistry (12%)	Clinical medicine (6%)
Physics & math (12%)	Engineering (5%)
Earth sciences (11%)	Biochem. & biotech. (5%)
Technology (9%)	

31% of Berlin's PCT patent applications are filed in collaboration with other inventors, with **Cologne**, **Munich** and **Frankfurt am Main** emerging as the top collaborative locations.

72% of Berlin's scientific articles are published in collaboration with other organizations, with the top three collaborating locations being **Cologne**, **Munich** and **Heidelberg-Mannheim**.