



Warsaw, Poland

Warsaw is the only cluster within Poland that falls within the top 100 S&T clusters in 2023. It filed **175 PCT applications** and published **8,480 scientific articles**, both per 1 million inhabitants over the last five years, making it the:

90th largest science and technology cluster in 2023 (down one spot from 2022)

69th S&T cluster by intensity (relative to population density) in 2023 (unchanged from 2022)

Top PCT applicants

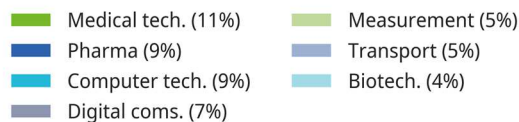
		Patents	Share
1	Samsung Electronics	42	9%
2	Uniwersytet Warszawski	29	7%
3	Nokia	14	3%

Top publishing organizations

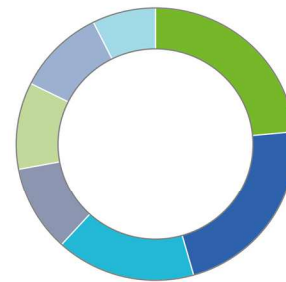
		Articles	Share
1	University of Warsaw	3,322	15%
2	Warsaw University of Technology	3,174	15%
3	Warsaw University of Life Sciences	2,253	10%

Top technology fields in Warsaw

Patents



Publications



18% of Warsaw's PCT patent applications are filed in collaboration with other inventors, with **Kraków, Munich** and **Dublin** emerging as the top collaborative locations.

44% of Warsaw's scientific articles are published in collaboration with other organizations, with the top three collaborating locations being **Kraków, Paris** and **London**.