



Minneapolis, United States

Minneapolis is the eleventh-ranked cluster, out of 21 American clusters, that falls within the top 100 S&T clusters in 2023. It filed **2,454 PCT applications** and published **5,696 scientific articles**, both per 1 million inhabitants over the last five years, making it the:

39th largest science and technology cluster in 2023 (down one spot from 2022)

23rd S&T cluster by intensity (relative to population density) in 2023 (up three spots from 2022)

Top PCT applicants

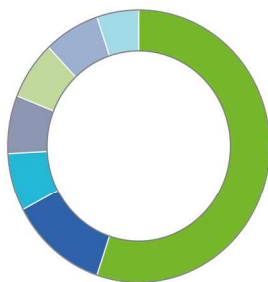
		Patents	Share
1	3M Innovative Properties	2,445	37%
2	Medtronic	687	10%
3	Boston Scientific	295	4%

Top publishing organizations

		Articles	Share
1	University of Minnesota Twin Cities	12,281	80%
2	Children'S Hospitals & Clinics of Minnesota	127	1%
3	Hennepin County Medical Center	124	1%

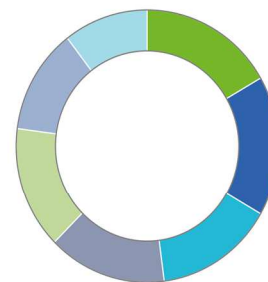
Top technology fields in Minneapolis

Patents



Medical tech. (32%)	Electrical machinery (4%)
Basic materials chemistry (7%)	Measurement (4%)
Optics (4%)	Other machines (3%)
Molecular chem. (4%)	

Publications



Clinical medicine (8%)	Biochem. & biotech. (7%)
Chemistry (8%)	Applied biology (6%)
Physics & math (7%)	Fundamental biology (5%)
Technology (7%)	

20% of Minneapolis's PCT patent applications are filed in collaboration with other inventors, with **Boston-Cambridge**, **Cologne** and **San Jose-San Francisco** emerging as the top collaborative locations.

70% of Minneapolis's scientific articles are published in collaboration with other organizations, with the top three collaborating locations being **Washington**, **Boston-Cambridge** and **New York City**.