



Philadelphia, United States

Philadelphia is the tenth-ranked cluster, out of 21 American clusters, that falls within the top 100 S&T clusters in 2023. It filed **1,062 PCT applications** and published **6,364 scientific articles**, both per 1 million inhabitants over the last five years, making it the:

35th largest science and technology cluster in 2023 (down one spot from 2022)

46th S&T cluster by intensity (relative to population density) in 2023 (up four spots from 2022)

Top PCT applicants

	Patents	Share
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2 W.L. Gore & Associates	254	5%
3 Janssen Biotech	210	4%

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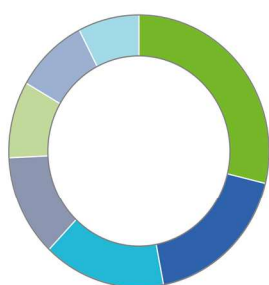
Top publishing organizations

	Articles	Share
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2 University of Delaware	3,166	10%
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Top technology fields in Philadelphia

Patents



Pharma (19%)	Basic materials chemistry (6%)
Medical tech. (12%)	Digital coms. (6%)
Biotech. (10%)	Molecular chem. (5%)
Organic fine chem. (8%)	

Publications



Clinical medicine (14%)	Technology (7%)
Surgery (12%)	Fundamental biology (6%)
Biochem. & biotech. (9%)	Physics & math (5%)
Chemistry (7%)	

37% of Philadelphia's PCT patent applications are filed in collaboration with other inventors, with **New York City**, **Boston-Cambridge** and **San Jose-San Francisco** emerging as the top collaborative locations.

72% of Philadelphia's scientific articles are published in collaboration with other organizations, with the top three collaborating locations being **New York City**, **Washington** and **Boston-Cambridge**.