



Nagoya, Japan

Nagoya is the third-ranked cluster, out of 4 Japanese clusters, that falls within the top 100 S&T clusters in 2023. It filed **1,978 PCT applications** and published **1,795 scientific articles**, both per 1 million inhabitants over the last five years, making it the:

15th largest science and technology cluster in 2023 (down two spots from 2022)

39th S&T cluster by intensity (relative to population density) in 2023 (unchanged from 2022)

Top PCT applicants

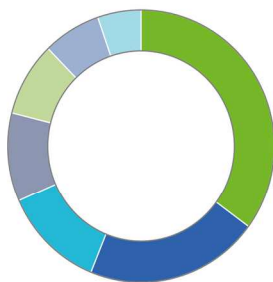
		Patents	Share
1	Denso	4,751	27%
2	Autonetworks Technologies	1,616	9%
3	Fuji	1,206	7%

Top publishing organizations

		Articles	Share
1	Nagoya University	7,971	50%
2	Nagoya Institute of Technology	1,136	7%
3	Nagoya City University	981	6%

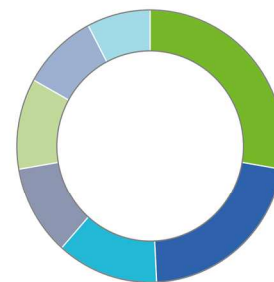
Top technology fields in Nagoya

Patents



Electrical machinery (20%)	Mechanical elements (5%)
Transport (12%)	Engines (4%)
Measurement (7%)	Control (3%)
Audio-visual tech. (6%)	

Publications



Chemistry (18%)	Biochem. & biotech. (7%)
Physics & math (14%)	Clinical medicine (6%)
Technology (8%)	Surgery (5%)
Engineering (7%)	

11% of Nagoya's PCT patent applications are filed in collaboration with other inventors, with **Tokyo-Yokohama**, **Osaka-Kobe-Kyoto** and **Hamamatsu** emerging as the top collaborative locations.

69% of Nagoya's scientific articles are published in collaboration with other organizations, with the top three collaborating locations being **Tokyo-Yokohama**, **Osaka-Kobe-Kyoto** and **Fukuoka**.