



Rensselaer

PhD Opportunities in 6G Lab with Prof. Ish Jain

Prof. Ish Jain is hiring fully funded PhD students for the Wireless Intelligent Systems Lab at RPI. Our research focuses on advanced wireless systems, including both theory and testbed development. Interested candidates can email jaini@rpi.edu with their areas of interest, CV, and transcript. Selected students may receive an application fee waiver.



Research Area

- **NextG Networking** – Building scalable and reliable 6G networks, Millimeter-wave, FR3 Mid-band Communication, Integrated Communication and Sensing, MIMO Applications in Open-RAN.
- **Wireless Sensing** – Privacy-preserving sensing with mmWave radar, UWB, and THz sensors.
- **Wireless Security** – Protection against spoofing and jamming attacks on communication and sensing systems.

About me

I am Assistant Professor in the Department of Electrical, Computer, and Systems Engineering at Rensselaer Polytechnic Institute (RPI). I attended UC San Diego, New York University, and IIT Kanpur, India for my PhD, MS, and B.Tech degrees, all in Electrical and Computer Engineering. My research focuses on next-generation wireless systems, including 5G, beyond 5G, and wireless sensing technologies. I have received multiple recognitions, including the Qualcomm Innovation Fellowship (2022) and VMware Research Grant (2023). Additionally, I have won the 3-Minute Thesis competitions at ACM MobiSys (2020), MobiCom (2021, 2022), Best Poster Award at Hotmobile (2023), and the Best Thesis Presentation award at ITA (2024). My work has been published in top venues such as SIGCOMM, NSDI, MobiCom, Sensys, Infocom, and IEEE Security and Privacy Journal. Visit my webpage at <https://ishjain.github.io>

Why join RPI?

Celebrating its 200th anniversary in 2024, RPI is recognized as the first technological university in the United States. Primarily focused on engineering, RPI is renowned for its high-quality research output and is classified as an R1 University. The School of Engineering ranks among the top 50 engineering schools in the country. Notable alumni include a Nobel Prize winner in Physics, the co-founder of Nvidia, and a former vice president of Broadcom. RPI is also part of the Empire AI and AiMOS Computing Cluster and hosts an IBM Quantum Computer on campus.

RPI's beautiful campus is located in downtown Troy, just 15 minutes from Albany, the capital of New York, and about 2.5 hours from New York City. Upstate New York is known for its four seasons, including stunning fall colors and the scenic Adirondack, Catskill, and Berkshire mountain ranges. Popular local activities include hiking, skiing, concerts, various sports, and visiting museums.

Financial support and admission requirements

- PhD students are fully funded through department fellowships, research assistance, and teaching assistance. Industry assistance is also available through IBM, Boeing, Global Foundry, and GE.
- MS students can acquire merit-based fellowships
- GRE is Optional (TOEFL or IELTS required)
- \$75 Application Fee (Can be waived)
- Fall 2025 Doctoral Application Deadline: January 1, 2025
- Fall 2025 Master's Application Deadline: March 1, 2025
- Apply here: <https://apply.rpi.edu>

