

PhD/MSc Positions in AI & Optimization & Communications

Open Positions

Dr. Jie Chen is seeking two highly motivated students to pursue PhD or MSc studies in the [Department of Electrical and Computer Engineering](#) at the [University of New Brunswick \(UNB\)](#) in Canada. The successful candidates will receive **full financial support** and work on cutting-edge research topics in the following areas:

- **5G/6G Communication Technologies**

- Integrated sensing and communication (ISAC), wireless power transfer, energy harvesting, millimeter-wave communications, RFID, MIMO, OFDM, and OTFS
- Channel estimation, signal detection, beamforming design, multiple access techniques, and wireless resource management

- **Artificial Intelligence for Wireless Networks**

- Generative AI, large language models (LLMs), and foundation models for communication systems
- Distributed learning, optimization, and autonomous operation for wireless networks

Application Requirements

- Background in Communication Engineering, Electrical Engineering, Computer Engineering, or related fields.
- Strong undergraduate record with a minimum GPA of 3.3.
- PhD applicants must hold a master's degree with an excellent academic record; prior publications are preferred.
- For English language requirements, please refer to the [university website](#).
- For further information about our MSc and PhD programs in ECE, please refer to the [university website](#).

How to Apply

- Please submit the following application materials as a single PDF file to jie.chen@unb.ca: CV, transcripts, a brief research statement, TOEFL/IELTS score report (if applicable), and publications (if applicable).
- Please use the subject line: “[PhD/MSc] Application – [Your Name] – [Intended Start Term/Year]”.
- Due to the high volume of applications, only selected candidates whose backgrounds closely match the research directions will be contacted for an interview, typically within one to two months of receiving their application.

About the Supervisor

Dr. Jie Chen is an Adjunct Professor and Research Scientist in the Department of Electrical and Computer Engineering at the University of New Brunswick (UNB), Fredericton, Canada. Before joining UNB, he was a Postdoctoral Associate in the Department of Electrical and Computer Engineering at Western University, London, Canada, from 2022 to 2026.

Dr. Chen was recognized among the World's Top 2% Scientists list. He has published 29 papers in leading IEEE journals and conferences, receiving over 3,600 citations on Google Scholar. Three of his papers were recognized as ESI Highly Cited Papers (Top 1%), and one was recognized as an ESI Hot Paper (Top 0.1%). He received one Best Paper Award and the 2024 IEEE London Section Communications Chapter Outstanding Engineer Award. He currently serves as an Associate Editor for the *IEEE Canadian Journal of Electrical and Computer Engineering*, has completed over 300 peer reviews for leading journals, and has actively contributed to the research community through Technical Program Committee service and session chairing at major IEEE conferences.



**Jie Chen**

University of New Brunswick
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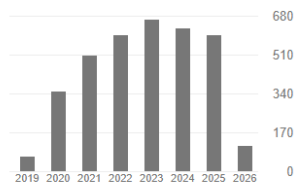
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