



Fully Funded PhD Positions in Texas A&M University ECE Prof. Xin Chen's Group

Description: Prof. Xin Chen's research group at Texas A&M University (TAMU, College Station) has multiple openings for fully funded Ph.D. positions starting in **Fall 2024**. The research of Prof. Chen's group lies in the intersection of control, machine/reinforcement learning, and optimization for smart sustainable power and energy systems. The group aims to develop fundamental theories, innovative algorithms, and practically applicable tools to advance the intelligence, resilience, and sustainability of modern power and energy systems. Specific research directions include:

- AI-enabled control and optimization
- Distributed algorithms
- High-renewable-penetration system planning and operation
- Control of inverter-dominant systems
- Autonomous coordination of large-scale distributed energy resources
- Carbon-electricity nexus and grid decarbonization, etc.

Check the group website <https://xchen.engr.tamu.edu/> for more information.

Application: Interested applicants shall submit their applications to the graduate program of TAMU before the deadline, and contact Prof. Chen at xin_chen@tamu.edu with the subject line "Prospective Ph.D. Student", enclosing CV, transcript, and a short description of research interests. Students with backgrounds in power systems, control theory, machine learning, optimization, etc., are encouraged to apply. Successful candidates are highly self-motivated with strong mathematical backgrounds, programming skills, and research interests in energy systems.

Bio: Dr. Xin Chen is an Assistant Professor with the Department of Electrical and Computer Engineering at Texas A&M University. Prior to joining TAMU, Dr. Chen was a Postdoctoral Associate at the Massachusetts Institute of Technology. Dr. Chen received the Ph.D. degree in electrical engineering from Harvard University, the master's degree in electrical engineering and two bachelor's degrees in engineering and economics from Tsinghua University. Dr. Chen is the recipient of IEEE PES Outstanding Doctoral Dissertation, Best Research Award in 2023 IEEE PES Grid Edge Technologies Conference and Exposition, Outstanding Student Paper Award in 2021 IEEE Conference on Decision and Control, Best Student Paper Award Finalist in 2018 IEEE Conference on Control Technology and Applications, Best Conference Paper Award in 2016 IEEE PES General Meeting, Harvard Award of Distinction in Teaching, etc.

About TAMU ECE: Texas A&M University is a prestigious public research university located in College Station, Texas, U.S. The College of Engineering at TAMU is ranked top 10 in the U.S. for its graduate engineering program in 2024 (U.S. News & World Report). TAMU ECE offers one of the world's most comprehensive and competitive programs dedicated to power and energy systems. Students have access to world-class faculties and resources including the Smart Grid Center, the Energy Institute, and many other cutting-edge research activities across campus.