



Fully Funded Ph.D. Positions in the ECE Department at Texas A&M University

Description: Dr. Xin Chen's group at Texas A&M University (TAMU, College Station) has multiple openings for fully funded Ph.D. positions starting in Spring 2025 and Fall 2025. The research of Dr. Chen's group lies in the intersection of control, machine/reinforcement learning, and optimization for human-cyber-physical systems, with a focus on sustainable power and energy systems. The group aims to develop fundamental theories, algorithms, and practically applicable tools to advance the intelligence, resilience, and sustainability of power and energy systems. Specific research topics include AI-enabled control and optimization, distributed algorithms, high-renewable-penetration grid planning and operation, modeling and control of inverter-dominant systems, coordination of large-scale distributed energy resources, grid decarbonization, etc.

Students with backgrounds in power systems, control theory, machine learning, optimization, mathematics, etc., are encouraged to apply. Successful candidates are highly self-motivated with strong mathematical backgrounds, programming skills, and research interests in energy systems.

Interested applicants shall submit their applications to the graduate program of TAMU before the deadline, and contact Dr. Chen at xin_chen@tamu.edu with the subject line "Prospective Ph.D. Student", enclosing CV, transcript, and a short description of research interests.

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 Transactions on Smart Grid Top-5 Papers, 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 in College Station, Texas. 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.