



## **PhD Student Positions at the ECE Department – The University of Alabama**

Dr. Qianzhi Zhang's research group at The University of Alabama invites applications for two fully funded Ph.D. positions for the upcoming academic year, starting either in Fall 2023 or Spring/Fall 2024. The successful candidate will work with Dr. Qianzhi Zhang in one of the following areas:

1. Modeling, simulation, and control of power systems and microgrids with renewable energy generations and inverter-based resources
2. Resilience enhancement of inverter-dominated power systems
3. Power system planning and operation with end-use electrification at scale, including building and transportation electrifications.

### **Required Qualifications:**

- Bachelor's degree in power systems, power electronics, control theory, or related fields
- Strong mathematical background and proficient programming skills in optimization and machine learning
- Self-motivation for excellence

### **Preferred Qualifications:**

- Master's degree in power systems, power electronics, control theory, or related fields
- Research experience with power system modeling, simulation, and control

The University of Alabama is a public research university in Tuscaloosa, Alabama. Established in 1820 and opened to students in 1831, the University of Alabama is the oldest and largest of the public universities in Alabama as well as the University of Alabama System. It is classified among "R1: Doctoral Universities – Very high research activity".

Dr. Qianzhi Zhang will be joining The University of Alabama's Department of Electrical and Computer Engineering as a tenure-track assistant professor in the upcoming Fall semester of 2023. He is currently an Ezra Systems postdoctoral associate with Cornell University. He received his Ph.D. in electrical and computer engineering from Iowa State University in 2022.

### **Contact Information:**

If you are interested in joining Dr. Qianzhi Zhang's research group, please apply to the graduate program of UA and email me at [qzhang61@ua.edu](mailto:qzhang61@ua.edu) or [qz363@cornell.edu](mailto:qz363@cornell.edu), and kindly provide your **latest CV, research statement, transcript, and one sample publication (if applicable)**.