UCONN
UNIVERSITY OF CONNECTICUT

Two Open Positions for PhDs in Power Engineering at the University of Connecticut

Position Description

Dr. Zongjie Wang is seeking two PhD students who are interested in the areas of power system, distributed energy resources, applied mathematics, optimization, and data science.

The successful applicants will work with in support of various projects and programs. Research focus is on the following:

- Microgrids and distributed energy resources modeling, analysis and control;
- Bi-level optimization framework with critical component modeling;
- Power electric market mechanism under bi-level framework across dispatch operational hierarchy;
- Feasible region characterization/Power solution solvability in transmission, distribution, and T&D;
- Cyber security in distribution grids.

Position Requirements

- PhD candidates should have relevant background in electric power systems, computer science, or applied mathematics with application in power systems;
- Experience in modeling modern power systems with renewable-based sources (e.g., wind and solar);
- Good written and oral communication skills;
- Willing to explore new areas, and able to work with others as part of a project team.

Preferred Requirements:

Experience with one or more of the following: optimization algorithms, dispatch hierarchy functions including day-ahead scheduling and real-time dispatch, unit commitment, optimal dispatch, real-time simulator, coding skills (e.g., Matlab, Python, OPENDSS, PSSE, Matpower)

Other Information:

UConn offers competitive graduate assistantship. UConn is a top public research university in New England region and is ranked 18th among public research universities in the U.S.A. The university is close to Hartford, Boston area and NYC.

Contact Information:

If you are interested in the opening, please send your CV and a sample publication to Dr. Zongjie Wang at zongjie.wang@uconn.edu. Please specify "Ph.D. Candidate" in the email subject.