



University of Georgia

**COLLEGE OF ENGINEERING**

## **Postdoctoral Research Associate in Energy and Power Informatics**

The College of Engineering (<http://www.engineering.uga.edu/>) at the University of Georgia seeks candidates for a postdoctoral research associate position in energy and power informatics. We are particularly interested in candidates in the areas of cyber-physical systems and security, power system, fog/edge computing, artificial intelligence. Qualified candidates should have a doctoral degree in Computer/Electrical Science/Engineering (or equivalent) by the date of appointment. Salary and benefits are competitive. Exceptional candidates may be considered for Research Assistant Scientist position.

This postdoctoral research associate will be expected to lead and build research in both analytical and experimental aspects related to energy and power informatics, while working closely with Dr. WenZhan Song, the holder of Georgia Power Mickey A. Brown Professorship in Engineering. The strategic research focus include, not limited to, smart grid informatics and security, power plant (including thermal power stations, dams, nuclear plants, solar and wind farms, etc) and grid infrastructure monitoring and protection, machinery health diagnostics and predictive analytics, and subsurface imaging for geo-energy E&P and energy waste storage issues. We seek a passionate researcher who will bring and further build their own research activities and work collaboratively with existing research teams that respond to and inform regional, national, and international initiatives.

The College of Engineering and the University of Georgia is well positioned to take a leadership role at the interface of informatics, energy, and power systems. Faculty members in secure, resilient, and sustainable systems have expertise in sensors and transducers, control systems, critical infrastructure, and system modeling. The college also has a history of research collaborations with research groups across campus including those in Computer Science, Management Information Systems, the Colleges of Agriculture and Environmental Sciences and the Franklin College of Arts and Sciences. The college is playing a leadership role in UGA's new informatics initiative and will be home to the new Georgia Informatics Institute (GII) for Research and Education now being launched. Nine new hires are underway across campus as part of the President's Informatics Faculty Hiring Initiative that will link existing strengths and create new collaborative opportunities. The College of Engineering is also playing a leading role in the development of a one-megawatt solar farm in the Athens area in collaboration with Georgia Power. In addition to strong collaborations with Georgia Power, the college is engaged with other global

corporations with research interest in energy and power informatics (<http://www.engineering.uga.edu/people/advisory-board>).

#### Application Instructions

Applicants shall submit their applications through [www.ugajobsearch.com/applicants/Central?quickFind=69318](http://www.ugajobsearch.com/applicants/Central?quickFind=69318) (If you do not have SSN, you may request a pseudo-ssn by emailing [employ@uga.edu](mailto:employ@uga.edu), or email applications to Prof. WenZhan Song: [wsong@uga.edu](mailto:wsong@uga.edu) for preliminary review). Applications must include a cover letter indicating the area of specialization, a detailed curriculum vita, a research statement, and names of at least three professional references. The application review process starts immediately upon the submission until the position is filled. Complete applications received by October 15, 2016 are assured of consideration. Please see [UGA guideline of the postdoctoral appointment](#).

Exceptional candidates may be considered for Assistant Research Scientist. Please see [UGA guideline of the research scientist appointment](#).

#### About the UGA College of Engineering

The College of Engineering at UGA was created on July 1, 2012 to provide new educational opportunities for students in the state of Georgia and beyond, build collaborative programs across the UGA campus, and increase the impact of the university on the state, the nation, and the world. Formed from the merger of two existing academic units, the college now offers eight undergraduate degree programs, seven graduate degrees, enrolls more than 1700 students, has over 50 faculty members, and plans to add 20-30 new positions in the coming years. The discovery and innovation enterprise of the college is growing rapidly with over \$6M in research awards and 13 patents filed in FY15.

#### About the University of Georgia

The University of Georgia is a public land-grant and sea-grant university located in Athens, GA. It is the oldest state-chartered institution in the United States, and currently enrolls more than 34,000 students across 17 schools and colleges. Ranked among the top 20 public institutions by US News and World Report, UGA is a research-intensive university that prides itself on providing high-quality undergraduate, graduate, and professional education.

#### About Athens, GA

Athens, GA is located approximately 70 miles northeast of Atlanta, GA. Consistently voted one of the best college towns in the United States, Athens has a thriving business, restaurant and music scene. It is the gateway to numerous leisure activities in northern Georgia and is conveniently located about 75 minutes from Atlanta - Hartsfield International Airport.