

GE Global Research Center

Electrical Power Systems Engineer Niskayuna, NY

The Electric Power & Propulsion Systems (EP&PS) laboratory is a power system engineering group, focusing on both utility power systems, as well as mobile electric platforms. The group is active in providing expertise to a variety of GE businesses, including GE Energy, GE Aviation, GE Rail and GE Oil & Gas. As with most labs at the Research Center, the lab has an active mission of cross-pollinating these different businesses with best practices and technologies from the others.

RESPONSIBILITIES:

As an electrical power systems engineer in the EP&PS lab, you will analyze, model and design electric power systems and the components used in their synthesis, for both utility and mobile applications. You will be engaged with several GE businesses, including GE Energy, GE Rail, GE Consumer & Industrial, and GE Aviation.

You will:

- Formulate and develop new technologies and capabilities for GE's power generation, transmission, distribution and end-use product offerings by analyzing power system requirements and needs, and flowing these down to existing and new products.
- Provide system-level analysis and equipment application research and support, with a focus on the integration of renewable energy sources and complex industrial electrification projects.
- Participate on multi-disciplinary project teams by providing power system analysis expertise including: modeling, simulation, control strategies and evaluation of design alternatives.
- Contribute to the development and identification of technology, product and service opportunities.
- Effectively communicate results by preparing written reports and making presentations describing analyses performed, solutions developed, and value obtained.
- Connect the organization to the latest technology developments and trends.
- Contribute to the development of proposals for GE businesses as well as government agencies.
- Contribute to and eventually lead project management activities, including IP landscape assessments and patent applications, technical reports and publications, oral presentations for management and customer project reviews, and general project management including budget and resource planning and execution.
- Work closely with cross business teams on proposals and business development activities.

BASIC QUALIFICATIONS:

- YOU MUST BE ABLE TO SATISFY THE REQUIREMENTS OF SECTION 19 OF THE FEDERAL DEPOSIT INSURANCE ACT.
- Doctorate in Electrical Engineering with specialization in Electrical Power Systems.
- Minimum of three (3) years experience with either:
 - Power system analysis, for complex industrial electrical system design, utility systems operation and transmission planning, or
 - Power system analysis and design for mobile applications.
 - Proficiency with power system analysis tools for transient stability or electromagnetic transients.
- Experience in control theory with a focus on control algorithms for power systems.
- Familiarity with power electronic applications in power systems.
- Must be willing to work out of an office located in Niskayuna, NY.
- Must be willing to take a drug test and submit to a background investigation as part of the selection process.
- Must be 18 years or older.

You must submit your application for employment against job number 806132 at www.gecareers.com to be considered for this position.



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