



Research Engineer (I or II) – Testing Electrical Engineer

NEETRAC, the National Electric Energy Testing, Research and Applications Center at Georgia Tech, is looking for electrically oriented engineers to develop and conduct applied research programs in its electrical testing laboratory located in Forest Park, GA, just south of downtown Atlanta.

NEETRAC is a widely respected center in the US for applied research and testing in the field of electric energy transmission and distribution. The center operates as a membership focused consortium that includes electric utilities, equipment manufacturers and related industries in the electric energy delivery arena. The diverse interests of the consortium enable NEETRAC to provide a dynamic work environment with extensive interaction with real world issues and opportunities.

As a part of the School of Electrical and Computer Engineering at the Georgia Institute of Technology, NEETRAC provides solid benefits and competitive compensation packages.

Job Scope/Duties

1. Design and conduct applied research on Member collaborative [Baseline] projects
 - Typical projects include:
 - Comparative analysis of competing or new technologies
 - Investigation of phenomena that impact utility system components
 - Develop and evaluate the effectiveness of a test process or method
2. Design, conduct and manage customer specific test programs in the electrical laboratory (40%)
 - The electrical laboratory includes the following types of testing:
 - AC Medium Voltage (1 kV – 46 kV)
 - AC High Voltage (69 kV – 800 kV)
 - Impulse (Lightning) 2.2 MV
 - Wet and Dry Testing at Elevated Voltage
 - Fault Current Testing
 - Managing test programs involves:
 - Developing a test plan proposal based on a customer's RFQ.
 - Preparing detailed test plans and/or following national/international standards.
 - Coordinating testing activities, schedules, resources, etc.
 - Working with technicians to perform tests.
 - Communicating with customers on test status and results by analyzing data and writing test reports.
 - Components tested include utility distribution and transmission devices such as:
 - Wire, cable, and bus work
 - Electrical connectors
 - Insulators

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- MV and HV cables
- Fuses
- Switches, transformers and capacitors

Key Responsibilities

- Prepare project proposals (Scope, Schedule, Budget, Deliverables) for both large and small Research and Testing projects within the NEETRAC scope
- Manage research and testing projects to assure they are performed with a high degree of professionalism and customer satisfaction and are completed on time and on budget.
- Provide consultation to NEETRAC Members within candidate's areas of expertise.
- Provide work direction to technicians and coordinators as appropriate.
- Prepare project reports and presentations to members.
- Participate on relevant industry committees.
- Act as a role model and mentor others within the organization.
- Maintain and grow personal professional expertise.
- Support NEETRAC Management on business planning and reporting activities.
- Market NEETRAC services to members and non-members by displaying a significant familiarity with NEETRAC's services and capabilities.

Job Requirements

- Education
 - Minimum of a Bachelor's degree in an engineering discipline, including engineering technology
- Personal characteristics/knowledge/skills
 - Ability to work on multiple projects in parallel
 - Good self prioritization skills
 - Strong interpersonal skills
 - Proven ability to work as part of a team
 - Ability to use standard measurement instruments (voltmeters, ammeters, oscilloscopes, etc.)
 - Ability to work in a laboratory (assist with test setups, record data, troubleshoot, etc.)
 - Solid speaking, presentation and writing skills
 - Solid knowledge of engineering principles
- Preferential consideration given for the following experience/skills
 - 5+ years relevant work experience (testing/research)
 - Electrical or Mechanical Engineering degree
 - Control circuit design and construction
 - Conducting, developing, managing R&D projects
 - Electric utility operations experience
 - Test lab engineering
 - Knowledge of computer/control systems including SharePoint, App development and PLC programming and data processing.

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More about this position

- The position is located in Forest Park, GA (not GA Tech's main campus)
- Pay will be commensurate with skills and experience
- GA Tech has competitive benefits
- GA Tech is an equal opportunity employer

If you feel you are qualified for this position, please submit your resume to info@neetrac.gatech.edu.

For more information on Georgia Tech NEETRAC, go to www.neetrac.gatech.edu.