Electrical Engineer Positions at Georgia Tech NEETRAC

NEETRAC, the National Electric Energy Testing, Research and Applications Center is looking for electrically oriented engineers to develop and conduct applied research programs in its research, development and testing laboratory located in Forest Park, GA, just south of downtown Atlanta. NEETRAC is the pre eminent center in the US for applied research and testing in the field of electric energy distribution and transmission. The center operates as a membership focused consortium that includes electric utilities, equipment manufacturers and related industries in the electric energy 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 Georgia Institute of Technology, NEETRAC provides solid benefits and competitive compensation packages. The job level (Research Engineer I, Research Engineer II, or Senior Research Engineer) will depend on the relevance of the candidate’s skills, experience and degree(s).

Job Duties

1. Design and conduct applied research on Member collaborative [Baseline] projects (40%)
   o 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%)
   o 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
   o 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.
   o Components tested include utility distribution and transmission devices such as:
     ▪ Wire, cable, and bus work
     ▪ Electrical connectors
     ▪ Insulators
     ▪ MV and HV cables
     ▪ Fuses
     ▪ Switches, transformers and capacitors

3. Provide technical support (advice and guidance) to Members, non member customers and fellow NEETRAC engineers and technicians. (15%)

4. Support the implementation and dissemination of NEETRAC project results through interactions with standardization bodies. (5%)
Job Requirements

- Minimum job requirements
  - A Bachelors degree in an engineering discipline, including engineering technology

- Personal characteristics/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
  - Solid speaking, presentation and writing skills

- Additional or preferred requirements
  - 3+ years relevant work experience (testing/research, electric utility operations)
  - Electrical Engineering degree
  - Expertise in control circuit design and construction
  - R&D experience
  - Electric utility experience
  - Test lab engineering

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 linda.dillon@ece.gatech.edu. For more information on Georgia Tech NEETRAC, go to www.neetrac.gatech.edu.

Georgia Tech is an equal opportunity employer and will not discriminate against any employee or applicant on the basis of age, color, disability, gender, national origin, race, religion, sexual orientation, veteran status, or any classification protected by federal, state, or local law. Consistent with its obligations under federal law, each company that is a federal contractor or subcontractor is committed to taking affirmative action to employ and advance in employment qualified women, minorities, disabled individuals, special disabled veterans, veterans of the Vietnam era, and other eligible veterans.