The National Renewable Energy Laboratory (NREL), located in beautiful Golden, CO, is a leader in the U.S. Department of Energy's effort to secure an energy future for the nation that is environmentally and economically sustainable. Our mission is to develop renewable energy and energy efficiency technologies and practices, advance related science and engineering and transfer knowledge and innovations to address the nation's energy and environmental goals.

Engineer III - Mechanical Commercial Buildings
Requisition #1618BR

Job/Research Summary

The Commercial Buildings group at NREL has new engineering positions available. This position will be responsible for research level energy analysis for commercial buildings, in particular the retail, hospital, and schools sectors. Work will involve measuring performance of actual buildings and comparing to simulations.

SPECIAL NOTE:

This job is a Full-Time (40 hours per week) Temporary position which means that the position will last at least one year and possibly 2 or longer. There are health, PTO and other benefits associated with the position. NREL will pay for SOME relocation costs for the selected candidate. All applicants should include a cover letter along with their resume letting the recruiter know how they qualify for THIS position.

Job Duties

Measuring, simulating, and evaluating energy use in buildings using building energy analysis software tools such as Energy-Plus. Work will involve computer programming involving these tools in order to evaluate impacts of parameter variation. Work will respond to the needs of the Task Leader and Section Supervisor on this effort. The position will also provide an opportunity for publishing case studies and summaries of the information generated by the simulations and other related existing segments of the project. Center management reserves the right to modify assignments as needed according to organizational priorities in a dynamic environment.

Required Education and Experience

Relevant PhD or equivalent relevant education/experience.

Or, relevant Master's Degree and 3 or more years of experience or equivalent relevant education/ experience.

Or, relevant Bachelor's Degree and 5 or more years of experience or equivalent relevant education/experience.

Required Knowledge, Skills and Abilities

Demonstrates broad understanding and wide application of engineering technical procedures, principles, theories and concepts in the field. General knowledge of other related disciplines.

Demonstrates leadership in one or more areas of team, task or project lead responsibilities. Demonstrated experience in management of projects. Very good writing, interpersonal and communication skills.

Preferred Qualifications

Demonstration of good writing skills. Good computer programming skills including spreadsheets and structured programming languages such as Delphi, C++, FORTRAN, and Visual Basic. Experience with data acquisition systems and collection of field data. Experience with the design and delivery process for commercial buildings especially the retail and/or hospital sectors. Experience with building energy analysis software tools such as EnergyPlus. Understanding of basic heat transfer and thermodynamics. Understanding of electrical distribution systems and power electronics. Experience in designing and installing acquisition systems and evaluating collected data using a variety of techniques. Experience in experiment design, uncertainty analysis and statistics.

Pre-employment drug testing required.

Submit Your Resume

For complete responsibilities and requirements, please apply online on our website at: **www.nrel.gov/employment**

If you have any questions or for confidential inquiries, please contact Joan McMahon at joan.mcmahon@nrel.gov or call 303-384-7567.

EEO Policy

NREL's policy is to provide equal employment opportunities to all qualified persons without regard to race, age, color, sex, religion, national origin, marital or veteran status, or any other legally protected status.