Position Title: Research Laboratory Engineer

Employment Type: Research Associate I, Administrative Professional

College: Engineering

Department: Mechanical Engineering

Salary: Commensurate with experience plus benefits

Position Description:

The successful candidate will operate experimental research equipment to process CdTe solar photovoltaic cells and schedule, organize and perform experiments. In addition, the Research Laboratory Engineering Technician will perform maintenance, repair and modification to a variety of systems including vacuum chambers, pumping and measurement systems, process control and data acquisition systems, RF and DC power supplies and gas feed systems.

As a member of a research team, the Research Laboratory Engineer will work with students and will facilitate, coordinate and conduct solar photovoltaic deposition and will perform solar cell device analysis then synthesize and report results. The candidate should also be able to work with a minimum of supervision.

The Research Laboratory Engineer may be called to periodically support evening or weekend activity. The successful candidate will be expected to occasionally lift equipment and may be required to climb on equipment; stoop, crouch, kneel and use hands and fingers to feel, handle, and assemble equipment and to visually read procedures and schematics. The position will require the handling of hazardous waste and will require the use of personal protective equipment including a respirator.

Experience and Skills:

Required

- Bachelors' degree
- Two years of experience with vacuum systems for processing semiconductor materials
- Two years working with complex mechanical assemblies, tooling, or manufacturing equipment.

Preferred

- Bachelors' degree in engineering, science or equivalent discipline
- Greater than two years of experience with vacuum systems for processing semiconductor materials
- Greater than two years working with complex mechanical assemblies, tooling, or manufacturing equipment.
- Experience in processing semiconductor devices particularly CdTe solar cells.
- Demonstrated organizational skills and experience
- Demonstrated experience with maintenance and modification of vacuum deposition and controls systems
- A knowledge of design of experiments (DOE) methods and applications
- Experience with thin film characterization and metrology methods
- Experience with controls systems and lab control software such as "Labview"

- Familiarity with computers and Microsoft applications; some programming skill preferred
- Ability to work with a minimum of supervision

To apply: For full consideration apply by November 14, 2011. Please apply online at https://www.engr.colostate.edu/me/rlesearch/ .
Upload the following application materials as one pdf or word document:

- Cover letter and resume that address all the minimum and preferred qualifications
- Names and contact information for three references

If you are unable to upload your application, please mail hard copy to: CSU, Mechanical Engineering: attn.: Solar Research Lab Engineer, 1374 Campus Delivery, Fort Collins, CO 80523. Additional questions/requests will be forwarded to Search Chair James Sites via the Mechanical Engineering Department, Denise.Morgan@colostate.edu or (970) 491-5569.

Colorado State University is committed to providing a safe and productive learning and living community. To achieve that goal, we conduct background investigations for all final candidates being considered for employment. Background checks may include, but are not limited to, criminal history, national sex offender search and motor vehicle history.

Colorado State University does not discriminate on the basis of race, age, color, religion, national origin or ancestry, sex, gender, disability, veteran status, genetic information, sexual orientation, or gender identity or expression. Colorado State University is an equal opportunity/equal access/affirmative action employer fully committed to achieving a diverse workforce and complies with all Federal and Colorado State laws, regulations, and executive orders regarding non-discrimination and affirmative action. The Office of Equal Opportunity is located in 101 Student Services.