



NREL's Mission

NREL develops renewable energy and energy efficiency technologies and practices, advances related science and engineering, and transfers knowledge and innovations to address the nation's energy and environmental goals.

www.nrel.gov/employment

Equal Opportunity

NREL is an equal opportunity employer committed to diversity and a drug-free workplace.

National Renewable Energy Laboratory
1617 Cole Boulevard
Golden, Colorado 80401
303.275.3000

NREL is a national laboratory of the
U.S. Department of Energy, Office of Energy
Efficiency & Renewable Energy, operated by
the Alliance for Sustainable Energy, LLC.

The National Renewable Energy Laboratory (NREL), located in beautiful Golden, Colorado, 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.

Scientist IV, Solid-state Physicist 2243BR

Job Summary: This position requires experience with basic and applied studies of semiconductor materials and devices. The successful candidate will be able to apply a solid understanding of solid-state physics to better understand and resolve issues with CdTe solar cells. The position requires the expertise to evaluate complex data sets and design experiments that can result in improved CdTe device performance. The scientist will be expected to interact with research partners both internal and external to NREL.

Job duties and responsibilities:

- Design experiments that will elucidate the factors driving CdTe solar cell performance and establish a pathway toward improvements.
- In collaboration with others inside and outside of NREL, execute these experiments.
- Evaluate the value of new and existing characterization techniques toward being able to answer fundamental questions about CdTe.
- Present results at professional conferences, publish research in peer-reviewed journals, contribute to internal reports, and assist with preparation and submission of funding proposals.
- Mentor scientists, engineers, students, and post-docs.
- Follow all environment, health, and safety (EHS) policies and procedures to ensure and maintain a safe working environment.

Required Education and Experience Relevant PhD and 4 or more years of experience or equivalent, OR relevant Master's Degree and 7 or more years of experience or equivalent relevant education/experience.

Required Knowledge, Skills and Attributes: Applies extensive scientific technical expertise, and has full knowledge of other related disciplines. We are hoping to find someone who understands and speaks theory who applies science to the research. The winning candidate will be considered a technical resource. Demonstrates leadership in several areas of team, task or project lead responsibilities. Demonstrated experience in management of projects. For this position, excellent technical writing, interpersonal and communication skills are a must.

Additional Required Knowledge, Skills and Attributes

- Experience with characterization or semiconductor materials and devices.
- Basic understanding of semiconductor materials and devices.
- Strong analytical skills, detail oriented, strong problem solving and troubleshooting skills.



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- Excellent communication skills, both oral and written.
- Self-motivated, creative, able to work well both in teams and independently, good judgment, clear sense of purpose and personal responsibility.

Preferred Qualifications:

- Knowledge and experience with photovoltaic materials and devices.
- Thorough understanding of the device physics of photovoltaic devices.
- Experience with CdTe solar cells.
- Thorough knowledge of semiconductor devices and the relationship between semiconductor material properties and solar cell performance.
- Solid publication record demonstrating work on semiconductor materials and/or devices.

EEO Policy / E-Verify NREL is dedicated to the principles of equal employment opportunity. NREL promotes a work environment that does not discriminate against workers or job applicants and prohibits unlawful discrimination on the basis of race, color, religion, sex, national origin, disability, age, marital status, ancestry, actual or perceived sexual orientation, or veteran status, including special disabled veterans.

NREL validates right to work using E-Verify. NREL will provide the Social Security Administration (SSA) and, if necessary, the Department of Homeland Security (DHS), with information from each new employee's Form I-9 to confirm work authorization. For additional information, please see www.nrel.gov/employment/eo.html.

To apply: www.nrel.gov/employment search for requisition number 2243

Or contact: Marlo Hughen, Sr. Recruiter at: Marlo.Hughen@NREL.gov