Photovoltaics R&D Technician
Job # 26-1003

Company Overview

Xunlight 26 Solar, a technology spin-off from the University of Toledo, engages in the development, manufacture, and marketing of photovoltaic modules that convert sunlight into electricity. The company develops thin-film cadmium-telluride-based photovoltaic products and manufacturing equipment for high-throughput production of flexible and lightweight photovoltaic modules at low cost.

Job Description

This research and development technician will operate magnetron sputter deposition and related processing equipment for fabrication of CdS/CdTe solar cells and modules, and will perform device testing on the structures fabricated. This position will coordinate with the R&D team and report to the Chief Technology Officer.

Job Responsibilities

- Operate sputter deposition equipment for CdTe and related materials coatings on flexible materials and on rigid substrates as needed, including
    - maintain detailed records of deposition conditions (e.g., substrate temperature, vacuum integrity, magnetron power, and deposition anomalies) in a manner that can be correlated with measurements of film quality and solar cell device performance;
    - maintain high vacuum deposition systems including vacuum pump fluids, sputter target replacement and other equipment disassembly and minor repairs as needed;
    - operate DC and RF magnetron sputtering systems and gas flow systems.
- Perform materials characterization measurements on thin films;
- Perform device measurements, such as current-voltage curves devices; and
- Assist in the critical evaluation of the film deposition quality, interacting with the Xunlight 26 Solar PV R&D team.

Job Status: Full time

Job Requirement

- Experience/training in thin-film deposition, preferably sputtering of thin films
- Associates degree in science or engineering with B.S. preferred
- Experience/training in materials characterization and optics
- Strong analytical ability and familiarity with vacuum and electrical equipment
- Ability to work in a team but without constant, direct supervision

Please submit resume and cover letter and salary requirements (specify Job # 26-1003 in subject line) HR@xunlight26.com for consideration