

Nivosun, Inc.

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Solar Test Engineer

The Solar Test Engineer is responsible for the test methods and equipment selection used in the measurement of photovoltaic cells and modules. The Solar Test Engineer utilizes appropriate control and standardization methods to ensure accurate and repeatable test results. He / She becomes the primary interface on test related issues with vendors and internal/external business partners.

Duties:

- Develop methods, equipment and procedures to quantify the performance of CIGS devices in an in-situ (on the web) context.
- Specify and implement solar simulator and IV test equipment at the following locations:
 1. Cell test w/gridline
 2. Array test
 3. Module test
 1. Continuous solar simulator
 2. Pulse solar simulator
 4. Exposed Roof Top testing
- Determine grading criteria and test process parameters
- Correlate Nivosun test processes to established standards (NREL)
- Setup calibration routines to achieve best repeatability and reproducibility across multiple inspection systems.
- Work jointly with other Nivosun engineers and outside contractors to implement integrated measurement systems
- Establish SPC methods for real time control of production test equipment.
- Trouble-shoot complex measurement systems and support the maintenance team in a training, coaching, and advisory role.

Requirements:

- Education: B.S. degree in Electrical Engineering or a Photovoltaic discipline, M.S. preferred.
- Must be hands on and hardware comfortable. Focus will be on designing, building, evaluating, and improving equipment and test systems.
- Must have good understanding of electronic hardware (reading schematics and component data sheets, operating meters, oscilloscopes and troubleshooting)
- Must be able to work well and safely without close direction
- Must interface successfully with engineers and personnel of other disciplines
- Must have knowledge of the statistical methods required to evaluate measurement systems.

- Must be a good communicator with the ability to present and defend the rationale behind our test and measurement systems.
- Experience with PV testing is also a plus.
- Software experience with Labview or Visual Basic preferred

Salary/Benefits: NuvoSun offers competitive salary and benefits