

## **Job Description** **Senior Reliability Engineer**

Heliene Inc. is a solar company founded in 2010 and headquarter in Ontario, Canada. We are a manufacturer of high efficiency, high quality, and high reliability solar panels. Our panels are produced on state-of-the-art solar manufacturing lines in Ontario-Canada, Minnesota-USA, and at manufacturing partners in Asia.

We are seeking a Senior Reliability Engineer to lead our Reliability Engineering Program. The Reliability Engineer will have overall responsibility of research, assessment, and selection of materials, and preparation and implementation of company-wide reliability plans. This is a unique opportunity for a highly skilled, experienced, and motivated individual to join a team that is developing solutions to tackle the climate crisis with strong development and manufacturing presence in North America. This position is based in Sault Saint Marie, Ontario, Canada with opportunities to travel to US manufacturing plant and manufacturing and supplier locations in Asia.

### Responsibilities:

- Responsible for company-wide reliability program for all solar products.
- Research structures and properties of materials and material interactions to ensure reliable operation of the solar modules for the warranty duration.
- Develop or qualify new materials, as necessary.
- Develop plans for and subject materials, coupons, and modules to a broad set environmental and weathering conditions. Analyze and present results and devise next course of action.
- Design and develop new reliability test techniques methods and procedures. Follow industry standard reliability protocols. Develop custom reliability plans where necessary.
- Work closely with design, product, process, test, and operations teams to ensure system and component reliability goals are met.
- Lead Company's programs to achieve extended reliability status and reliability scorecard targets.
- Perform failure analysis and root cause studies and put corrective actions in place.
- Participate in and lead new product development activities when required.
- Set up and manage in-house and external test labs.

### Qualifications:

- PhD or M.S. in Electrical Engineering, Mechanical Engineering, Chemical Engineering, Materials Science, Physics, or related field
- 5 or more years of direct experience in PV reliability engineering working for a solar panel manufacturer
- Hands-on experience of solar panel manufacturing, accelerated testing, and failure analysis
- Hands-on experience of setting up and operating reliability test equipment, performance test equipment, and metrology equipment
- Direct experience of testing solar components at material, module, and system level for reliability and performance
- Direct experience of certification, compliance, and extended reliability testing of solar panels
- Highly skilled in one or more programming languages, lab tools, data analytics, and analysis

To apply, please send your resume and a cover letter to [careers@heliene.com](mailto:careers@heliene.com)

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