

## **Job Description** **Senior Product 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, Florida-USA, and at manufacturing partners in Asia.

We are seeking a Senior Product Engineer to lead our Product Development Program. 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/ supplier locations in Asia.

### **Responsibilities:**

- Development of new product and support of existing products.
- Work closely with sales, marketing, and operations teams to ensure product goals are met
- Devise detailed product development plans and implement them - including plans for prototyping, pre-production, and production.
- Perform material selection and develop process recipes for new products. Perform monitoring of exiting products.
- Develop test and characterization plans for components, panels, and systems.
- Perform testing and characterization of solar cells, solar panels, and systems.
- Perform modeling and simulation of solar components and systems
- Set up and monitor of test sites
- Analysis of large sets of data and synthesis of results
- Preparation and presentation of reports to engineering and management teams
- Set up and manage in-house and external performance test labs
- Development of CAD models and drawings

### **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 development of new PV products
- Hands-on experience of solar panel manufacturing and testing
- Hands-on experience of setting up and operating solar panel manufacturing and test equipment
- Direct experience of testing solar components at material, module, and system level
- Knowledge of certification, safety, and compliance of solar panels and systems
- Strong knowledge of solar industry trends, solar products, and solar systems.
- Direct experience of working with suppliers of materials and products in the solar industry
- 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)

Released: February 22, 2022