

# Rayleigh Solar Tech Inc.

1 Research Dr. Dartmouth NS, B2Y 4M9  
rayleighsolartech.com

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## **Process Engineer / Engineering Manager**

**Full-time**

**Salary Range: \$75-100k/year**

### **About Rayleigh Solar Tech**

Rayleigh Solar Tech (Rayleigh) is a Halifax Nova Scotia based startup founded in 2016 that is commercializing perovskite solar cells. Perovskite is a promising new technology with comparable efficiency to silicon-based cells that is inexpensive to manufacture. Perovskite solar cells can be manufactured to be flexible and semi-transparent, providing limitless opportunities. Rayleigh is in the process of scaling from benchtop to large-scale manufacturing and is seeking to grow our team to support this process.

### **Job Overview**

We are currently growing our team and seeking a talented, experienced Process Engineer/Engineering Manager to lead the engineering team. The Process Engineer/Engineering Manager will report to the COO and will oversee engineers in manufacturing, product development and testing.

The successful candidate will be a senior member of the Rayleigh team. As the Engineering Manager, in addition to overseeing Rayleigh's engineering team, they will design, build and test perovskite PV integrated prototypes and products. They will also help to set the roadmap for development of perovskite PV products by engaging with the product development engineer and Rayleigh business staff.

As a Process Engineer, the successful candidate will be Rayleigh's subject matter expert in manufacturing, supporting senior management with manufacturing related issues. They will develop manufacturing models to determine costing of perovskite PV, evaluate manufacturing processes and work with material and equipment suppliers to develop solutions. They will assist senior management in setting a roadmap to scale Rayleigh's perovskite PV from prototype and proof of concept to mass manufacturing. This may include providing design-for-manufacture input to engineers and scientists, developing process flows and laying the groundwork for a perovskite PV manufacturing plant.

The successful candidate will collaborate closely with a multi-disciplinary team including engineers, scientists, and business professionals with the goal of moving closer to commercialization.

### **Responsibilities:**

- Work with the product development team to design process and products for manufacturability at scale
- Support collaborations with industry partners by bringing a manufacturing perspective to project activities.
- Work with Rayleigh's business team to investigate potentials of different product ideas through modeling, prototyping, and testing.
- Develop a plan to scale manufacturing on selected products and optimize the process once established through researching, designing, modifying, and testing
- Manufacturing facility layout and simulation planning

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- Support the Chief Operating Officer in developing a resource plan for the engineering team and for mass manufacturing
  - Update and maintain Rayleigh's manufacturing model to develop comprehensive cost and time estimates for various product applications.
  - Support business development staff with investor relations
  - Evaluate manufacturing processes by designing and conducting research programs.
  - Applying knowledge of product design, fabrication, assembly, tooling and materials
  - Provide mentorship to Rayleigh's engineering team and co-op students.

## Qualifications:

- Bachelor's or master's degree in industrial, mechanical, electrical or chemical engineering or related discipline.
- 10+ years' experience working in a technically complex, manufacturing environment such as
  - Photovoltaic (PV) panel manufacturing
  - Thin film (LCD, battery etc.) manufacturing
  - Flexible electronics
  - Automotive or consumer electronics
  - Polymer packaging
- Experience working with thin film solar technology is an asset.
- Experience transitioning from R&D to scale manufacturing is an asset.
- Experience taking a product from the design stage to manufacturing rollout is an asset.

## Other Information:

- Working locations
  - Primarily at the Rayleigh facility at 1 Research Dr., Dartmouth, NS.
  - Work from home possible when not required in lab for hands on work.
- Hours: 40 per week, variable, with some flexibility between 9:00am and 5:00pm.

## Why work with us?

Rayleigh is pleased to offer a number of benefits including:

- Health and dental insurance.
- Three weeks paid vacation to start.
- Potential to participate in Rayleigh stock option plan.
- Clean Transportation Incentive to support public transit and active transport commutes.
- A friendly and supportive team.
- Free parking and bike rack on-site.
- Cake on your birthday.
- Casual attire.
- Professional development and other training opportunities.
- Regular social activities.

## Diversity and inclusion at Rayleigh

At Rayleigh, we know that diversity makes a strong team. We encourage all qualified applicants to apply for this position and we will never discriminate against race, ethnicity, gender identity,

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gender expression, sexual orientation, disability, religion, marital status, or family status. Instead, we work to celebrate the things that make us unique.

To eliminate possible bias in the hiring process, the first round of resume screening for this position will be conducted blindly. Identifying information including names and contact information will be blacked out by a Rayleigh team member who is not directly involved in the hiring decision. Personal information will be revealed to the hiring manager after they have selected candidates to be interviewed.

Don't meet all the above qualifications? No candidate will meet every single desired qualification. If your experience looks a little different from what we've identified and you think you can bring value to the role, we'd love to learn more about you! We thank all applicants for their interest. Only candidates selected for an interview will be contacted.

**To Apply:** Please submit a resume and cover letter merged into one PDF document. We are unable to accept applications that are not in PDF format.

**Contact:** [careers@rayleighsolartech.com](mailto:careers@rayleighsolartech.com)