

## Characterization Engineer

Do you thrive in fast-paced environments, solving complex research challenges to bring breakthrough technologies to market? Join Rayleigh Solar Tech as an Associate Characterization Engineer, where you'll play a pivotal role in scaling the next generation of perovskite solar modules.

In this role, you'll support the Senior Characterization Engineer on film and module testing to ensure component layers meet technical and product specifications. You will apply your engineering background and strong fundamentals to help test optical, mechanical, electrical, and moisture properties to inform materials and process development.

A proactive problem-solver who excels in high-impact roles and is passionate about renewable energy, If this sounds like you, we would love to meet you.

### Key Responsibilities:

- **Characterization and Analysis:** Perform thin-film analysis using a suite of characterization methods [XRD, SEM, ellipsometry, AFM, confocal, mechanical and optical testing] that allows for optimal design choices and process development under the mentorship of the Senior Characterization Engineer
- **Product Development:** Contribute to the product development team on design validation through construction of design rigs, familiarity with CAD processes, and experimentation [mechanical, electrical, optical]
- **Cross-team collaboration:** Work across a diverse team of technologist, economist, and procurement engineers to deliver on company goals

### Qualifications & Skills:

- **Education & Experience:**
  - B.S. in Mechanical Engineering, Materials Science, Chemical Engineering [polymers], or a related field.
  - 1-2+ years of experience in a characterization or product role
- **Specialized Knowledge & Skills:**
  - Familiarity of characterization methods and fundamentals within the scope of mechanical, optical, electrical, chemical disciplines
  - Driven by rigorous experimentation design, analysis, and reporting

### **Core Competencies:**

- **Drive:** Relentless drive for excellence in everything you touch
- **Presence:** Given the choice, people want to be on your team, working to solve hard problems together
- **Hustle:** Ability to work fast and smart; time management is key for a start-up
- **Adaptable:** Start-ups are dynamic; our people must be, too
- **Curiosity:** Excited to take their prior experiences and apply it to a solar product
- **Execution:** Commitment to delivering results and leading by example. This will include bringing clarity to complex tasks through methodical processes, mentorship, and documentation
- **Effective:** Proven ability to work effectively across cross-functional teams, including product design, technologist, and operations

**About Rayleigh:** Based in Halifax, Rayleigh Solar Tech's mission is to be the lowest cost provider of clean electrons to drastically increase access to renewable energy and enable the green technology transition. The challenge is bold and we get there by continuing to build a team relentless in their pursuit of excellence in everything we touch.