

Rayleigh Solar Tech Inc.

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



Electronics Engineer

Full-time

Salary Range: \$70K-\$85K/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

The successful candidate will be a member of the Rayleigh engineering team and report to the Product Development Engineer. The Electronics Engineer will be responsible for designing, testing and optimizing the conductive pathways in Rayleigh's perovskite PV panels. This includes interfacing with the filmic conductors in the PV cells, electrical contacting and transition to wire. The Electronics Engineer will lead the development of junction box design for medium and low voltage PV systems for a variety of end use applications including automotive, aerospace and consumer electronics. As Rayleigh's perovskite PV panels are flexible these activities will focus on flexible electronics design and manufacture.

The Electronics engineer will also be responsible for the power electronics needed to supply the DC power of the PV system to the load. This may include working with energy harvesting microcontrollers, medium power DC/DC converters in automotive applications or inverters for grid-tied applications. The Electronics Engineer will lead power electronics development within Rayleigh and will power electronics subject matter expert when communicating with customers or suppliers.

The successful candidate will collaborate closely with a multi-disciplinary team including engineers, scientists, and business professionals.

Responsibilities:

- Lead the integration of Rayleigh solar cells into new and existing products.
- Manage the design, assembly, and testing of products to ensure they meet design specifications for function, performance, and quality.
- Design low-to-mid power electronics including creating schematics and PCB layouts.
- Work hands-on with electronics development and validation, while also taking a project management role.
- Act as a technical advisor to Rayleigh team members and industry partners.
- Coordinate internal and external projects.
- Provide expertise and mentorship to the engineering team and co-op students.

Qualifications:

- Bachelor's degree in electrical engineering or related discipline.

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- 4+ years' experience working with electronics in the photovoltaic, automotive, consumers electronics or aerospace industries.
- Design-for-manufacture experience.
- Design experience using flat conductors and flexible PCBs.
- Experience transitioning from R&D to scale manufacturing.
- Rapid prototyping experience
- Comfortable working in a rapidly changing start-up environment
- Knowledge of standards pertaining to solar PV and/or automotive electronics

Nice to Have

- Master's degree in electrical engineering
- Experience with solar photovoltaics
- Prior experience with flexible electronics
- Prior experience with EV power systems

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, 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.

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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