

## **Formulation Chemist – Perovskite Solar cells**

Photovoltaics has been identified as a key technology in the necessary transition away from fossil-combustion-based energy sources. Perovskite solar cells have received tremendous attention in recent years due to their unprecedented sprint in power conversion efficiency and ease of processing. Despite great success, some challenges still remain to be addressed to facilitate the commercialization of this exciting technology. Amongst them, the use of low cost deposition methods alongside confirmed long term operational stability of devices are critical for market entry.

**Solaires** consists of a diverse team of scientists, engineers, business professionals and clean energy enthusiasts united under one common goal: to develop the next generation of solar cells! **Solaires** is looking for an experienced Chemist for its **Product Development** team. Solaires is headquartered in Victoria, however this position will be in **Vancouver**.

Responsibilities for this position include:

- Formulation and optimization of Perovskite ink for solar cell fabrication
- Design and fabrication of Perovskite solar cells
- Chemistry and interface optimization of each device material layer
- Advanced materials characterization such as XRD, SEM, UV-Vis, etc.
- Plan and manage design of experiments
- Implement quality control measures
- Cooperation with industry partners in Canada and abroad

Applicants must have completed a MSc or PhD degree in an engineering/science discipline and are also expected to have research and development experience in the following areas:

- Wet chemistry and ink formulations
- Handling and fabricating air and moisture sensitive inorganic and organic materials
- Excellent communication skills and the ability to work in a team with as well as independently lead projects
- Experience with photovoltaic device fabrication and Perovskite ink formulation will be given preference
- Industry experience is preferable

### **How to Apply**

Applicants should provide Resume and Cover Letter to [shima@solaires.net](mailto:shima@solaires.net)

Applications will be accepted on a rolling basis until the position is filled.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents of Canada will be given priority.