Job Title: Jr. Mechanical Engineer – Climate Change Solutions, Energy Team
Location: Sydney, Nova Scotia
Salary: $55 - $65k

Role Description:

The Verschuren Centre for Sustainability in Energy and the Environment (Verschuren Centre Inc) has a mission to accelerate clean technology commercialization towards decarbonizing energy and a circular economy. The Centre provides applied research, development and deployment expertise to commercial, institutional and industrial partners, from SME's to multinationals to improve their energy sustainability, reduce carbon footprint and greenhouse gas emissions. Reporting to the Program Manager, Energy the successful candidate will help provide technical expertise to projects incorporating renewable energy, energy storage and energy efficiency. A particular focus of this role will be decarbonization of thermal energy systems and processes.

Qualifications and Eligibility:

• Require experience working with mechanical energy systems.
• Minimum Bachelor's Degree in Mechanical Engineering or equivalent combination of education and experience
• General working knowledge of renewable energy, energy storage, particularly thermal energy transformation and energy efficiency technologies.
• Ability to assess feasibility of integration of energy storage with renewable energy generation and industrial thermal systems.
• Capacity to define requirements and fit for proposed commercial hybrid renewable production and storage projects.
• Excellent communication skills - effectively interacting with engineering, policy and technology personnel.
• Industry experience with renewable energy systems an asset
• Project co-ordination, reporting and budget management skills would be considered an asset.
• Experience with energy monitoring and assessing economics and energy efficiencies in comparable systems an asset

Duties and Responsibilities:

• Provide technical direction on design and implementation of clean thermal energy systems
• Advise and conduct applied research into optimization of thermal decarbonization (electrification, fuel switching, storage, etc.) options
• Interact with clients, suppliers, stakeholders, funding sources, subcontractors, and engineers.
• Assess efficiencies and applications of various clean energy technologies and deliver feasibility reports regarding performance and sustainability outcomes.
• Identify energy saving opportunities and make recommendations to achieve more energy efficient operation through analysis of energy usage data.
• Conduct jobsite observations, field inspections, or sub-metering to collect energy use data
• Review architectural, mechanical, or electrical plans and specifications to evaluate energy efficiency, economic and engineering feasibility.
• Evaluate novel technologies for application in project and partner applications.

- Assist with the expansion of the energy program at the Verschuren Centre

All interested and qualified candidates are asked to submit their cover letter and resume to mhiscock@verschurencentre.ca. Please reference the job title in which you are applying for in your cover letter and email subject.