College of Engineering and Mathematical Sciences
Summer Internship Program 2015

Internship Position/Title:
Electrical Engineering Intern

Company Name:
Vermont Electric Power Company (VELCO)

Location of internship:
Rutland, VT

Company Overview:
VELCO is one of the nation's fastest growing electrical transmission and fiber network companies. It was formed in 1956 when local utilities in Vermont joined to create the nation’s first statewide, "transmission only" electric company in order to gain shared access to clean hydro power and maintain an improved electric transmission grid. The company works to give Vermont's utilities and their ratepayers a unified voice on regional energy issues such as better integration of distributed generation resources. VELCO currently manages over $1 billion worth of assets and remains committed to the safe and reliable delivery of high-voltage electric power. Our goal is to secure cost-effective solutions—transmission, generation, efficiency—that ensure system grid reliability.

OUR VALUES

• We produce high-quality work and provide honest, accurate judgment and advice.
• We are good stewards of ratepayer dollars, our environment and cultural resources.
• We strive to achieve cost-effective solutions—transmission or non-transmission—to ensure system reliability.
• We create value for our owners, customers, regulators, the public and the region.
• We nurture our employees’ professional and personal growth, and foster a culture of safety, integrity, open communication, teamwork and the ability to embrace change.

Job/Project Description:
Interns will support the engineering and design of VELCO's state of the art electric transmission system under the direction and guidance of a VELCO Senior Engineer. They will have the opportunity to work on a variety of projects ranging from the design of protection and control systems to the development of processes and systems for the safe and reliable operation of the transmission system.
Tasks may include:
- Development of point-to-point wiring diagrams
- Calculation of fault current and arc flash values
- Incident review and analysis
- Design of protection and control panels and layout
- Substation layout and design
- Working in the field to gather data and perform testing and other support activities

**Required Skills & Qualifications:**

Must be enrolled in a college, pursuing a degree in engineering, preferably as a sophomore or higher and have completed courses in basic electrical theory
Must be self-motivated and have the ability to work independently and as a part of a team
Must have strong verbal and written communication skills

**Additional Preferred Skills & Qualifications:**

- AutoCAD experience
- Prior engineering internship experience
- Demonstrated technical writing skills

**Start & End Dates:**
Flexible between May 18, 2015 and September 11, 2015

**Hours/week:**
Up to 40

**Salary/Compensation:**
Commensurate with experience

**Company Supervisor Name:**
Daniel Poulin, Manager of Engineering

**Opportunity for students to continue working part-time during the school year?**

☒ Yes
☐ No

**Additional Comments:**