

## Description de stage – 2024

- **Project Engineering Intern**

### Company Description

Litostroj is a manufacturer of equipment for hydroelectric power plants. We work in a sector related to large industry, mainly in design, manufacturing and installation activities. The main equipment, turbines and generators represent the heart of the hydroelectric power plant with parts several meters in diameter and weights of several tons. With the many auxiliary systems that are attached to it, cooling, voltage and speed regulation, hydraulic system, electrical cabinets, all these elements make up the bulk of the equipment that we put in place for the operation of the turbine generator unit.

Our young and dynamic company is growing strongly with an annual increase in its results exceeding 20% for more than 3 years. We are a multinational company serving our clients around the world and our Bromont entity covers Canada, the United States and Latin America.

The equipment must be designed and installed with a precision worthy of watchmaking or aeronautics.

The challenges are numerous: precision, anticipation, cost management, logistics. The handling of parts in the plant, the management of dozens of subcontractors, quality control in the factory, on the site, compliance with health and safety rules are all subjects that the trainee will be confronted with.

Our customers' satisfaction is our ultimate mission. Each project is unique in its design and execution, which makes our industry one of the most exciting. To learn more about the company, our team and our projects, we invite you to visit:

- Our website <https://litostrojhydro.ca/>
- our YouTube channel <https://www.youtube.com/@litostrojhydro3399>
- notre profil LinkedIn <https://www.linkedin.com/company/litostrojhydro>

### Description of the Hydro Project Engineering Internship:

#### What we offer - Overview:

- Diverse and inclusive internship encouraging active participation and integration as an integral member of a multidisciplinary, innovative team open to new ideas
- Teamwork with experienced mentors and industry experts.
- Company culture focused on collaboration and authenticity
- Flexible schedule and adaptability of tasks according to professional development

- Remote work option with a hybrid model
- Active social life
- Professional integration opportunities for CPI, depending on the needs of the company and the results of the internship

*Specifically:*

- Basic training in the field of hydropower
- Multidisciplinary experience in engineering management on major projects
- Possibility of site visits during execution
- Possibility of visiting a power plant or factory during inspections or maintenance interventions
- Meetings with clients

What we offer: the details

The intern will be called upon to support the members of the project engineering team in their various mandates as well as to lead and accomplish mandates by him/herself. The work environment is very dynamic and the mandates are diverse. The various tasks carried out with the project engineering team are as follows:

*Project Engineering*

- Coordination of design activities from the various engineering suppliers (European Litostroj offices and Canadian partners).
- Engineering resource planning (definition of mandates, division of duties, design diagrams).
- Review and issuance of engineering deliverables.
- Validation of the functional interfaces between the different parts of the machine.
- Technical coordination with the customer.
- Development and review of technical site procedures (e.g. dismantling sequence of a landing, installation of a lifting system, etc.)
- Evaluation and decision-making of technical and commercial decisions.
- Technical Risk Management
- Technical Troubleshooting
- Project Management Support
- Support during coordination meetings with the customer, engineering and suppliers
- Updating a project schedule

*Project Support*

- Travel to the construction site or to suppliers for quality monitoring or progress of the work (accompanied by a professional).
- Preparation of transport diagrams

- Communication with suppliers for technical clarification
- Procurement support (preparation of calls for tenders, review of tenders, preparation of purchase orders, production follow-up)
- Drafting of quality assurance documentation resulting from a pre-established procedure
- Complete transmittal slips based on new documents received

### **Required Skills:**

Initially, the intern will focus on learning our products, requiring a thorough understanding of mechanics and power electricity. He/she will have to demonstrate leadership to accomplish his/her missions and demonstrate a spirit of initiative, which is essential in the context of projects within a small company.

Autonomy in the management of one's work is essential to meet the deadlines of ongoing projects. In addition, excellent communication skills are required, especially for effective work in a virtual environment, which involves collaborating remotely with interlocutors from different cultural backgrounds.

Finally, the candidate must be able to analyze and understand complex technical specifications.

The successful candidate will be called upon to support projects not only across all Canadian provinces but also in the United States. This position requires regular communication with the company's customers and partners, mainly located in other provinces of Canada, Europe, and the United States. As a result, a good command of English, both written and spoken, is essential to take on this role. Slovenian and Czech are assets.

The intern's work is carried out from the Bromont office, telecommuting and occasionally from a construction site or a manufacturing workshop. The candidate must have a valid passport, a valid driver's license and be able to travel to the Bromont office during your internship.

### **Additional Benefits**

- Previous experience in hydropower and professional interest in the sector
- Knowledge of hydraulic turbines and/or protruding pole generators
- Mechanical Technician (DEC)
- Carte ASP construction