



## APPLICATIONS ENGINEER

CALGARY, ALBERTA

**Swirltex Inc. (Swirltex)** is focused on the development and application of innovative technologies for treatment of difficult wastewater streams. Our expertise and solutions have demonstrated the ability to provide safe reliable water for reuse applications. Our patented process and modular system saved energy, is economical, and provides a service to customers where they need it when they need it.

Since the beginning we have thought about innovative ways to manipulate an incoming waste stream that enhances conventional treatment. We are focused on our customers and always developing new solutions to meet their challenges. We have worked with industries like food & beverage, municipal wastewater, and produced water.

Our vision is to change how water filtration has been done in the past to help industries and municipalities turn a waste into a resource towards a Net Zero Water future.

### **Purpose of the Position**

At Swirltex we are always striving to do things differently! We are looking for an Applications Engineer who thinks outside of the box and is looking to work with an exciting innovative wastewater treatment technology. As an energetic, highly motivated team player, the successful candidate will also have in-depth knowledge of various wastewater treatment technologies and applications.

At Swirltex, our team is the key to our success. We take pride in recruiting the best talent available for all areas of our business.

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### **Responsibilities and Accountabilities**

- Reviewing customer inquiries and specifications for wastewater treatment projects.
- Determining feasibility/suitability of the design and related equipment while balancing the technical and commercial pros and cons of the various treatment options.
- Providing preliminary engineering design to determine form, fit and function of product based on engineering knowledge as well as customer specifications.
- Performing calculations for system design which may include media and biological loading, flow calculations, ASME code calculations and other related work.
- Work with internal production team to generate cost work ups including material takeoffs and labor hours required.
- Creating vendor inquiry packages to obtain project related pricing when required.
- Preparing preliminary and final cost estimates using internal cost estimating tools and vendor quotations.
- Managing bid submissions to the sales team, ensuring cost accuracy and full compliance with contractual requirements at the lowest possible cost

- Liaising between various departments including engineering, project management, purchasing and production for technical assistance in developing concepts and processes and project order handoff.
- Providing prompt, appropriate, and accurate responses to internal and external customers.
- Research, develop, and implement solutions for new products and for improvements of existing products.
- Develop and implement systems testing and validation protocols.
- Perform other related duties as required.

### **Qualifications**

- Bachelor's Degree in Chemical Engineering preferred
- Must be in good standing as a registered Professional Engineer (P.Eng.)
- 10+ years' experience in a technical role in the wastewater treatment industry
- Minimum 5+ years directly involved in the design/fabrication/installation/operation of water and/or wastewater treatment systems
- Substantial experience in the following key technology areas: ultrafiltration, DAF, Settling clarifiers, biological treatment, wastewater nutrient removal (ammonia, nitrates, phosphorus), metals removal.
- Excellent customer service skills with a focus on relationship building
- Excellent problem solving and analytical skills
- Excellent written and oral communication skills
- Demonstrated ability to work in a collaborative team environment with engineers, trades, programmers, and technical professionals

### **Preferred**

- Advanced knowledge in membrane systems would be considered an asset
- Advanced knowledge in wastewater treatment and industrial pretreatment systems would be considered an asset
- Knowledge of PLC's and programming would be considered an asset

### **Location and Travel**

- Calgary, AB
- Travel: Up to 30%; in Canada (and internationally, if required)
- Must have a valid passport and driver's License;

We thank all applicants for their interest in our organization, however; only those selected for an interview will be contacted.

Please email resume and cover letter to [careers@swirltex.com](mailto:careers@swirltex.com)