

## PROCESS ENGINEER – MINE WATER TREATMENT (Vancouver BC)

### **Design something interesting. Work on game-changing technology. Make a difference.**

How often does an opportunity come along to work for a company focused on environmental protection and sustainability? We specialize in mine water management and enable mineral extraction projects to not only comply with stringent government regulations but also to operate in a socially responsible manner, putting value on clean water as a shared resource. We develop new technologies, design and operate water treatment plants, and provide ongoing technical support which enables us to continuously improve our designs and technologies.

### **The opportunity**

Our Process Engineers have a broad range of responsibilities and engages with all members of the company, as well as our clients. In this role you will:

- Take a project from conceptual design to full scale plant operation.
- Play a key role in developing new technologies and apply existing technologies in new areas of wastewater treatment.
- Learn and become an expert in designing a variety of unit operations including hydraulic conveying, solid-liquid separation, gas-liquid mass transfer, chemical and biochemical reactors, ion exchange and electro-reduction.
- Support our technology development group by providing hands-on assistance with laboratory and pilot-scale testing.
- Support our business development group by completing scoping level designs and cost estimates for preliminary evaluations of new applications.
- Support the operations group and gain experience with hands-on operation at full scale plants.
- Complete detailed process engineering design including mass and energy balances, equipment sizing and specifications, PFDs, P&IDs, GAs, instrument lists, etc.
- Write, review and edit technical documentation including lab reports, technical papers, design reports and proposals.
- Design process automation for treatment plants (i.e. control philosophies, instrument specification, as well as PLC/HMI programming).

### **Qualifications and requirements**

- Degree in engineering, disciplines of preference: chemical, hydrometallurgy, mineral processing, materials or mechanical.
- 2-7 years of experience in detailed process plant design engineering in water treatment, mineral processing, chemical industries as well as hands-on plant commissioning/operation.
- Solid understanding of the fundamental principles of aqueous inorganic chemistry.
- Strong mechanical aptitude – you have built things before and can figure out how things work.
- Can-do attitude – you always find a way to get things done.
- You enjoy multi-discipline engineering and you would not hesitate to put on coveralls to repair piloting equipment or help an operator at a plant.

# BQE Water

- Strong attention to detail and ownership to “get things right” the first time.
- Proven effective communicator – you are articulate and can get your message across clearly both verbally and in written form.
- Build effective relationships within the company and with clients and suppliers.
- Registration or ability to register with Engineers and Geoscientists BC.
- Travel to remote sites within North America and internationally as required (~10% of the time).
- Work in our Vancouver office 3 days/week, the other days can be from home or the office.

## **About us**

BQE Water has been on the forefront of innovation in mine water treatment for the past two decades and our holistic approach and new technologies are changing the way industry thinks about water. Our dynamic work environment offers opportunities for professional growth and development. We have a diverse and inclusive team in locations spread over three continents, offer a casual work environment and have a strong focus on teamwork to support the unique water needs of our clients. Visit [www.bqewater.com](http://www.bqewater.com) to learn more.

## **Are you interested?**

Send your resume and cover letter to [hr@bqewater.com](mailto:hr@bqewater.com) with your name and “Process Engineer” in the subject line. We will contact you if it looks like we have an opportunity that is right for you.