

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 on processes that provide the mining industry with advanced solutions to develop and manage projects in an environmentally responsible manner?

Contribute to protecting the environment by helping mining companies meet stringent water quality regulations cost effectively, minimize waste residues and recover value from waste. We also operate water treatment plants and provide ongoing technical support which enables us to continuously improve our designs and technologies.

About us

BQE Water is a service provider specializing in mine water treatment and management solutions that support and improve the performance of mining and smelting operations. We have been in commercial production since 2001 and have designed and constructed 22 water treatment plants at locations around the world. On average BQE Water treats 20 million m³ of wastewater and recovers 1,800 tonnes of metals of value annually. Visit www.bqewater.com to learn more about what we do.

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 any of the following:
 - » Detailed process plant design engineering in water treatment, mineral processing, chemical industries
 - » Hands-on plant commissioning and/or plant 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
- Strong attention to detail and ownership; take responsibility for “getting things right”
- Proven effective communicator – you are articulate and can get your message across clearly
- Build effective relationships within the company and with clients and suppliers
- Registration or ability to register with Engineers and Geoscientists BC
- Travel within North America and internationally, as needed

During the interview

- You may be asked to step up to a white board and solve a problem
- You may be given a task on a computer program you are not familiar with
- You may be required to take a workplace personality test

Are you interested?

Please send your resume and cover letter to hr@bqewater.com with “Process Engineer” in the subject line. We’ll contact you if it looks like we have an opportunity that’s right for you.