Electrochemical Engineer

Job description:

Job Type: Full-Time, On-Site

Job Location: Burnaby, BC

Salary: $80,000-$95,000

At pH7 Technologies we design and implement methodologies for sustainable extraction and refining of strategic metals for the renewable-energy transition.

We're a dynamic and fast-paced company with a culture of innovation and collaboration, and we're committed to attracting and retaining top talent who share our vision for a better and cleaner planet.

We offer more than just a job - we offer a dynamic and engaging workplace where you'll have the opportunity to grow your skills and contribute to meaningful work that makes a difference. We provide competitive compensation packages, including salary and benefits, as well as opportunities for professional growth and development.

pH7 is seeking an Electrochemical Engineer who plays a key role in designing and testing novel electrochemical processes. Starting with the project charter this engineer will be tasked with developing the idea, doing the test work and bringing the project from the lab to the pilot stage and then to commercialization.

Responsibilities

- Conduct research to develop new technologies or improve existing ones.
- Design systems and devices for our proprietary applications.
- Collaborate with the R&D team to design and conduct lab scale tests.
- Analyze data and interpret results to draw conclusions and make recommendations.
- Design pilot scale electrochemical systems for testing and validation.
- Develop and implement quality control measures to ensure the reliability and consistency of electrochemical products.
- Collaborate with cross-functional teams, including chemists, operators, and engineers, to integrate electrochemical systems into larger projects.
- Ensure that electrochemical systems comply with relevant safety, environmental, and regulatory standards.
- Identify and troubleshoot issues related to the performance or reliability of electrochemical systems.
- Maintain detailed records of experiments, designs, and test results.
- Prepare reports and documentation for internal use and regulatory compliance.
- Stay informed about emerging trends and advancements in electrochemical engineering through continuous learning and professional development.

Qualifications

- Bachelor’s degree in Chemical Engineering, Metallurgical Engineering or a related engineering program from an accredited university.

- 2 years of work experience in R&D, design or operating electrochemical systems including fuel cells, electrolysers, electroplating, electrowinning etc.
- Excellent communication skills in English.
- Ability to rapidly change focus and manage priorities effectively.
- Ability to integrate process safety in design and operational activities.
- Mechanical aptitude and a “hands-on” approach to building and operating pilot scale chemical processes.
- Willingness and ability to work on-site full time.

Nice to Have

- Experience in designing or operating the Chloralkali process.
- Experience in commissioning and/or operating chemical process plants.