

Chemical Engineer – Boston, MA

Nth Cycle is on a mission to enable a low-impact, streamlined supply of critical minerals for the energy transition. We are a fast-paced, dynamic team looking for someone who's passionate about climate impact and the clean energy space.

Position Description

The chemical engineer will work alongside a multidisciplinary team to help build and design a pilot plant to implement Nth Cycle's solutions to customers in the recycling and mining industries. The Chemical Engineer will be responsible for developing the establishment of capable processes for a new technology, sourcing and specification capital equipment for future pilot plants, and the optimization of these processes as the project goes from paper to real life.

The Chemical Engineer will report directly to the VP of Operations and work with a team of other capable engineers to introduce this technology to the world in a revolutionary way. This position will be in constant communications with manufacturers, the R&D team, and Product Lead to achieve fast passed objectives as a team leader, team member, and technical contributor.

Responsibilities include:

- Design, develop, and commission chemical preprocessing equipment and instrumentation based on R&D optimizations.
- Establish and carry out test validation for new processes, equipment, and products made.
- Manage small to large capital projects for delivering needed results within budget and schedule.
- Communicate technical results and challenges across the organization to advance product development.
- Demonstrate understanding of established manufacturing processes and equipment.
- Establish and document manufacturing methods, processes, manuals, and training.
- Demonstrate safety leadership particularly with chemical operations (gas generation, pressure vessels, exothermic reactions, corrosive materials, etc.)
 - This safety consciousness should permeate beyond designs and into daily life.
- Lead or participate in safety reviews such as HAZOP, which includes providing technical assistance with corrosive material concerns, cross contamination of chemicals, etc.
- Assist in implementing environmental improvement initiatives particularly with respect to emissions, pollutants identification, effluent control, neutralization of caustics/acids, etc.

Experience & Qualifications

- BS or MS in a Chemical Engineering
- 5-10 years of Chemical Engineering experience in a related environment
- Experience in chemical process scale up

- Experience with acidic reactions and metal dissolution
- Strong technical skills and analytical understanding
- Flexible thinking especially while problem solving
- Strong verbal and written/digital communication skills
- Attention to detail and deadline and budget aware
- Previous experience with environmental permitting- desirable
- Previous experience/certifications in Lean manufacturing, 5S, and/or Six Sigma- desirable
- Ability to work in a fast-paced environment.

Location

Greater Boston Area

- Full-time position
- Eligible for Medical, Dental, and Vision benefits
- Competitive compensation

Contact

Send your resume and cover letter to CEO Megan O'Connor at occonnor@nthcycle.com