



Please send your resume to: careers@nthcycle.com

15 Blue Sky Drive Burlington, MA 01803

Summer Intern Chemical Engineer – Burlington, MA

WHO WE ARE.

Demand for critical materials to power the energy transition is growing exponentially. Yet, we know mining deeper and broader, and building landfills higher and wider, works against our fight to save the planet. At Nth Cycle, we see the path forward. We believe all the critical metals needed for the energy transition are already in circulation today. We just didn't have a clean, profitable way of retrieving them, until now.

Nth Cycle is a leader in sustainable metals refining. Our Electro-Extraction technology helps scrap recyclers and miners capture valuable critical minerals—for use in lithium-ion battery manufacturing, among other things—while dramatically reducing costs and emissions. We are the heart of metals refining; we are the crucial step that profitably separates critical metals from other elements, transforming them into production-grade feedstocks for the energy transition.

OUR CULTURE.

You won't find another team like ours. We believe in open, honest communication, and enjoying our work while changing the world. We work quickly but with intention—we've scaled our technology 100x in the past year. We're mission-oriented and think big—we're focused on reducing gigatons of CO2 emissions from the atmosphere by 2050. We value the perspectives and opinions of our colleagues while pushing each other to excel.

We're a dynamic team looking for a new team member who's also passionate about addressing climate change and advancing the clean energy industry. Consistent with our commitment to diversity & inclusion, we value colleagues with the ability to work on diverse teams and with a diverse range of people.

POSITION DESCRIPTION.

This position will focus on assisting with basic lab operations needed for the characterization of materials collected by an Electro-Extraction technology for refining metal. The project involves using basic lab techniques to collect feedstock samples, prepare samples for analysis, and learn multiple characterization techniques. Day-to-day responsibilities will include general laboratory operations,



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developing technical proficiencies for preparing, handling, and running feedstock samples through various instruments.

KEY RESPONSIBILITIES AND ACCOUNTABILITIES.

- Assist to 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.
- Perform Inductively Coupled Plasma - Optical Emissions Spectroscopy, Fusions, and Acid / Base Chemistry with excellence.
- 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.

QUALIFICATIONS AND EXPERIENCE:

Qualified candidates will possess a strong combination of the following:

- Qualified candidates will possess a strong combination of the following:
- BS or MS in a Chemical Engineering or Chemistry Candidate
- Familiarity with chemical process scale up
- Familiarity 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.



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Nth Cycle does not discriminate in employment on the basis of race, color, religion, sex (including pregnancy and gender identity), national origin, political affiliation, sexual orientation, marital status, disability, genetic information, age, membership in an employee organization, retaliation, parental status, military service, or other non-merit factor.

CLOSING STATEMENT.

Consistent with our commitment to diversity & inclusion, we value people with the ability to work on diverse teams and with a diverse range of people. We especially encourage members of traditionally underrepresented communities to apply, including women, people of color, LGBTQ people, veterans, and people with disabilities.

We know the right candidate might not check every box in this job description. You could also have important skills we haven't thought of. If you think you're a great candidate for this role, apply and tell us why. To apply, send us a resume and a few sentences about why you are interested in this position and what you bring to the table. We're looking forward to hearing from you.

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- Or -

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