

Filtration Lab Technician

WHO WE ARE

Demand for critical minerals 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 the critical minerals 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 metal processing technology company. Our electro-extraction technology helps recyclers and miners capture more critical minerals—for use in lithium-ion battery manufacturing, among other things—while dramatically reducing costs and emissions. We are the heart of metals processing; we are the crucial step that profitably separates critical minerals 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. And 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.

If this is you, keep reading.

JOB OVERVIEW

This position will support hydrometallurgical R&D activities, with a primary focus on sample digestion, filtration, sample preparation, and laboratory operations. The Filtration Lab Technician will work closely with chemical engineers and scientists to execute experiments, prepare samples and reagents, operate filtration equipment, collect data, and maintain a safe and organized laboratory.

The ideal candidate is comfortable working with chemical processing equipment, follows SOPs carefully, maintains accurate records, and communicates clearly when issues or unexpected results arise.

KEY RESPONSIBILITIES

Sample Preparation & Analysis

- Perform acid digestion and sample preparation for analytical testing, including ICP analysis.

To apply, contact careers@nthcycle.com

15 Blue Sky Drive
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nthcycle.com

- Prepare acids, bases, reagents, synthetic solutions, and other laboratory solutions according to SOPs.
- Accurately weigh solids and measure liquids for experimental work and sample preparation.
- Collect representative solid and liquid samples, label them properly, and prepare them for internal or external analysis.

Filtration & Equipment Operation

- Perform vacuum, pressure, and filter-press filtration at bench and larger laboratory scales.
- Safely operate filter presses, vacuum filtration systems, pumps, air compressors, mixers, and related process equipment.

Experimental Support

- Support hydrometallurgical experiments, including leaching, precipitation, washing, solid-liquid separation, and filtration.
- Assist engineers and scientists with experimental setup, equipment preparation, testing, and data collection.

Documentation & Safety

- Record experimental conditions, observations, sample information, and results in laboratory notebooks and Microsoft Office applications.
- Follow established SOPs, chemical-handling procedures, and laboratory safety requirements.
- Handle materials that may contain heavy metals and chemicals including strong acids, strong bases, and oxidizing agents, using appropriate engineering controls and PPE.
- Clean and maintain laboratory equipment, glassware, filtration equipment, and work areas.

REQUIRED QUALIFICATIONS

Education

High School diploma or GED.

Experience

- Experience working in a chemistry laboratory setting, including proper use of laboratory PPE
- Ability to set priorities, multi-task, and adapt to ever-changing needs, with a proven ability to function well in a fast-paced environment
- Ability to do hands-on work to build and construct lab setups and equipment configurations
- Excellent written and oral communication skills
- Working knowledge of Microsoft Office (Word, PowerPoint, and Excel)

Physical Requirements

- Ability to lift 20+ pounds to counter height and overhead multiple times a day
- Ability to stand, move around the lab, and sit for up to 8 hours per day
- Ability to travel 10–20% of the time

PREFERRED QUALIFICATIONS

- Experience in metal refining and acid/base chemistry
- Experience using hand tools and/or shop machines

KEY SKILLS

- Careful adherence to SOPs, with accurate recordkeeping and clear communication when issues or unexpected results arise
- Comfortable working with chemical processing equipment in a hands-on lab environment
- Ability to set priorities, multi-task, and adapt to changing needs in a fast-paced environment
- Strong written and verbal communication skills

SALARY RANGE

\$45,000 - \$60,000

LOCATION

Burlington, MA