

Materials Engineer

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 is passionate about climate impact and the clean energy space.

Position Description:

The material science engineer will work alongside a multidisciplinary team of engineers and scientists to help optimize and implement Nth Cycle's state of the art electrochemical filter, which will be used in customer pilot plants in the metal recycling and mining industries. The material science engineer will be responsible for sourcing exceptional equipment and understanding the core materials of Nth Cycle's new patented technology for future pilot plants as the project goes from paper to real life. The material science engineer will report directly to the VP of Operations and work with a team of other capable engineers and R&D focused scientists. This position will be in constant communications with manufacturers and vendors, the R&D team, and the Product Lead to achieve fast passed objectives as a team leader, team member, and technical contributor.

Responsibilities include:

- Formulation, design, characterization, and optimization of new membranes and new membrane materials for core technology.
- Hands-on development, communication, and management of commercial manufacturers of membranes.
- Point person for all material engineering questions related to the process including materials of construction recommendations for polymers.
- Establish and carry out test validation for new materials, equipment, and products made.
- Ability to specify material compatibility tests and failure analysis.
- Communicate technical results and challenges across the organization to members with and without a technological background.
- Demonstrate safety leadership particularly with chemical and material compatibility.

Experience & Qualifications

- BS or MS in Material Science/Engineering, Polymer Engineering or a similar discipline
- 5-10 years of Engineering experience in a related environment
- Advanced understanding of soft materials
- Basic understanding of metals and/or metallurgy
- Experience in material selection for Materials of Construction for chemical processing
- 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 carbon-based membrane is desirable
- Previous experience/certifications in Lean manufacturing, 5S, and/or Six Sigma is 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 ococonnor@onthecycle.com