



Game-changing reverse osmosis membranes to change the way the world purifies water

October 4, 2021

Job Description: Membrane and Coatings Engineer

NALA Systems is a startup developing new reverse osmosis membranes from chemically resistant polymer materials. Our aim is to disrupt the RO membrane market with our uniquely durable and non-fouling membrane product. Our membranes will accomplish a multitude of objectives including reduce operating costs for RO systems by at least 20%, open new applications for RO to dramatically reduce energy use in thermal processes and increase adoption of desalination by reducing both complexity and cost to better enable decentralized treatment systems. We are looking for a membrane engineer with experience in roll-to-roll coating, process engineering and development, and process control to join our team in Research Triangle Park, North Carolina.

Purpose: Optimize and scale a roll-to-roll process to produce new membranes.

Reports to: CEO

Key Functions:

- Translate lab scale processes to a pilot coating line.
- Contribute ideas and feedback to lab process development with scale up in mind.
- Manage scale up of pilot coating line process to full scale line at contract manufacturer.

Responsibilities:

- Contribute expertise to all operations at NALA Systems.
- Contribute to the team to support membrane development, manufacturing, and testing.
- Lead and report R&D projects for membrane process development.
- Provide slides for technical and business development presentations as requested.
- Support proposal submissions and project reports with content in written, tabular, or figure form as requested.
- Develop and document methods and procedures for operating and maintaining NALA processing equipment and methods and train other staff as needed.
- Maintain clear records and documentation of research and results.
- Continue to learn and grow expertise in membrane materials, manufacturing, and use.

Requirements:

- M.S./Ph.D. or equivalent experience in chemical engineering, polymer engineering, or related field.
- Experience with roll-to-roll polymer coating operations.
- Experience translating coatings projects from lab scale to manufacturing.
- Knowledge of membrane construction and materials.
- Knowledge of polymer processing.

Preferred:

- Experience making and/or characterizing microporous membranes and/or thin film composites
- Experience with lean manufacturing, Six Sigma, or related methodologies

CONTACT, APPLY, QUESTIONS: sjmecham@nalasystems.com