

About Applied Biomimetic (AB)

Applied Biomimetic Inc. (www.appliedbiomimetic.com)

Applied Biomimetic is a leader in the convergence of polymer and protein membrane technology. We have developed a high-performance membrane platform for water, life science, industrial biotech, food, and dairy separation applications.

Nature's ability to separate chemical elements at the molecular level with the use of highly specialized proteins in the channels of cell walls was the subject of [a 2003 Nobel Prize in Chemistry](#). AB has developed advanced capabilities in the expression, purification, and production scale-up of porins from biological sources. When these proteins are embedded into a robust polymer structure, this achieves a unique membrane performance profile.

Our core technology is based on new chemistry and manufacturing methods to achieve highly permeable membrane material with narrow molecular size exclusion cut-off. By adding an active protein layer, the membranes will separate constituents at the ion level.

AB is focusing on the development of a wide range of applications for its patented technology. The aim is to provide disruptive solutions for the water treatment, health, food, and other industries enabling these industries to enhance their products, reduce costs, and save energy. The membranes are designed to withstand challenging and sometimes harsh environment in various industrial applications.

The company started-up its own manufacturing facility in 2019 to produce an ultrafiltration product that was originally developed in 2016 as a support substrate for a biomimetic membrane but has been successfully supplied in the food, dairy and industrial bio-tech markets. The UF element product is currently in use at several sites in a live production environment in the US, Europe and Asia Pacific, and it helps customer achieve high efficiency molecular separation in these "high value" fluid streams.

About the Role

As part of its expansion, AB is adding a role for Casting Lead in Gaithersburg, Maryland. This is an opportunity to join a growing organization in our casting, coating and drying operations.

Work Location

AB's main office is located in Gaithersburg, Maryland. This position requires that the job be performed at the AB production site in Gaithersburg, Maryland with limited needs for travel outside of the work site.

JOB DESCRIPTION

Job Title: Membrane Manufacturing Lead

Department/Job ID: Manufacturing

Reports To: Senior Manager, Operations

Direct Reports (if any): Membrane Manufacturing Team Members

Valid Date: 9/10/2021

Version #: 1

Job Overview: The Membrane Manufacturing Lead, is responsible for leading, coaching, and mentoring production operators, ensuring the operators are following established procedures to operate state-of-the-art casting, coating, and drying equipment, including quality checks, troubleshooting, and observing all Environmental, Health, and Safety (EHS) rules, including good housekeeping practices.

Role 1: General and Task Management

- Work to ensure people and resources are applied in an efficient and effective manner to meet delivery requirements while achieving quality and safety standards
- Support, comply and ensure compliance with Health & Safety regulations, the Company Handbook, company Quality Management System, Quality and Environmental standards, and all other Company policies and procedures
- Ensure that team members follow defined manufacturing procedures and comply with quality requirements
- Ensure equipment is within calibration date and all systems are functioning correctly
- Ensure all records are completed appropriately
- Ensure that non-conforming material is clearly identified and segregated
- Ensure that the escalation procedure for quality concerns is followed
- Ensure achievement of production throughput against stated capacity targets.
- Ensure the team are aware of day-to-day targets and responsibilities
- Maintain visible lead for adherence to procedures and instructions
- Monitor change over and/or line set up efficiency
- Prepare line set-ups for following shifts, including first piece buyoffs
- Monitor and maintain all safety equipment and tools
- Undertake continuous training and development
- Perform root cause analysis and resolve problems
- Identify business improvement opportunities within the organization
- Conduct risk assessments of processes and tasks in the department

Role 2: People Management

- Responsible for training operators on processes applicable to their work and for ensuring operators follow documented SOPs
- Responsible for daily management of Membrane Manufacturing operations and support for the team to achieve operational success
- Monitor time and attendance and ensure compliance with Company procedures
- Carry out incident, accident and non-conformity investigations and associated reporting and action closure

- Monitor the completion of tasks and ensure good performance and record on appropriate systems
- Consistently promote high standards through personal example and roll out through the team so that each member of the team understands the standards and behaviors expected of them
- Communicate Key Performance Indicators (KPIs) from the strategic annual plan so that each employee is aware of expectations and deliverables
- Provide product expertise within team, and respond to operator queries
- Work positively with support functions to fully define the processes/procedures/controls relevant to team activities. Provide support and input to continuous improvement activities within the team

Role 3: Site Level Responsibilities

- Support the manufacturing site in Perry Parkway as the Emergency Response lead
- Maintain Emergency Response training
- Support overall safety culture with AB and follow up on accident and near miss incidences as per policy
- Maintain ISO certification in Element Manufacturing

Role 4: Technical Responsibilities

- Support the rapid upscaling of new products onto the membrane manufacturing lines with a strong interface with Product Management and Research and Development groups
- Support pilot casting operations with team members, technical support, and equipment improvement
- Have continuous improvement mindset with improving variability, throughput, and yield in membrane manufacturing
- Work with Project Engineering to support changes to the existing equipment and manage those changes in a controlled fashion
- Maintain high level working knowledge in membrane manufacturing on the equipment, processes, and techniques

Any other duties as assigned by the manager.

Qualifications/ Requirements:

- At least a BS in Mechanical or Chemical Engineering, with minimum three years' experience in a membrane production facility
- Ability and willingness to safely work with manufacturing equipment
- Demonstrated leadership experience
- Ability and willingness to work overtime
- Applicant should be energetic self-starter with ability to work safely alone, or with others
- Strong attention to detail ensuring proper upkeep of the equipment used on the job
- Embraces personal challenge
- Confident, rounded thinker
- Self-aware, resilient, assertive and open to change

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- Engages interest and participation of others and has a collaborative approach to working together
- Actively committed to team development
- High level of motivation, optimistic and action orientated
- Frequent lifting of materials and handling of rolled elements up to 40 pounds.
- Ability to frequently stand, walk, reach within hands and arm's length, stoop, stretch and crouch.
- Ability to work in wet environment
- Able to wear safety glasses, hearing protection and safety work shoes
- Eligible to work in US