

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 Membrane Manufacturing Operator 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 & Senior Membrane Manufacturing Operators

Valid Date: 1/1/2022

Department/Job ID: Manufacturing Operations

Version #: 2

Reports To: Production Manager or Casting Lead

Direct Reports (if any): None

Job Overview: As the Membrane Manufacturing or Senior Membrane Manufacturing Operator, you will follow established procedures to operate state-of-the-art membrane manufacturing equipment, including quality checks, troubleshooting, and packaging of semi-finished/finished goods. You will operate equipment for the casting, drying, coating and pilot lines. You will observe all Environmental, Health, and Safety (EHS) rules, including housekeeping practices. In addition, the Operator will perform any additional duties as assigned by the Production Assistant Lead, Production Lead and Manager.

Role 1: Membrane Manufacturing

- Follow recipes and procedures accurately from batch, casting, and drying operations
- Record data in the appropriate paper and/or electronic records system aligned with company practice
- Routine checking of all parameters on the manufacturing equipment to ensure the equipment is operating with the acceptable parameters (calibration checks, temperatures, speed, thickness, etc...)
- Practice good housekeeping in the manufacturing area
- Practice good chemical hygiene in casting area; including proper receiving and storage of flammable chemicals and solvents
- Handles hazardous waste as per company protocols
- Report problems with product quality, processes, equipment and materials to management in a timely manner in form of detailed organized notes.
- Record the appropriate data in paper and electronic batch logs aligned with company practice, including checking all operating parameters on the machines (calibration, temperatures, speed, etc...)
- Keep the batching equipment well maintained
- Practice good chemical hygiene and housekeeping in the batching/storage areas

Role 2: Pilot Operations

- Set-up and operate the pilot casting machines as needed by Product Management, Production, or Research and Development
- Record the appropriate data in the data systems for the pilot casting machines
- Keep the pilot casting systems well maintained

Role 3: Overall Manufacturing

- Keep the overall Perry Parkway facility neat and well-organized
- Receive materials from outside vendors
- Supportive and Collaborative environment for all functions that work in Perry
- Other duties as assigned

Requirements - Operator

- Must be able to follow written instructions precisely and record information in detail and accurately.
- Basic math skills are required - algebra is preferred.
- 2 years of experience in a manufacturing environment - batching operations and web/converting based machinery (paper manufacturing, printing, laminating, etc) preferred.

Requirements – Senior Operator

- Must have trainer level knowledge on all major operations in Membrane Manufacturing (batching, casting, drying)
- Must have demonstrated troubleshooting skills in solving manufacturing issues
- At least two years direct working knowledge in converting machinery
- HAZWOPER certification is requirement
- Demonstrated willingness to take ownership and drive improvement on production processes
- Expected to be able to obtain a green belt in six sigma

Additional Qualifications:

- High school graduate/GED; technical degree is a plus
- Ability to lift 50lbs, operate basic hand tools, color vision, stand, kneel and climb stairs
- Ability to work wet environment
- Ability and willingness to work safely with manufacturing equipment
- Forklift training or certification is preferred.
- 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
- Teamwork and communication skills
- Eligible to work is U.S