

## **About Applied Biomimetic (AB)**

Applied Biomimetic Inc. ([www.appliedbiomimetic.com](http://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 methods. 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 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 environments 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 the Asia Pacific, and it helps the customer achieve high efficiency molecular separation in these "high value" fluid streams.

## **About the Role**

As part of its expansion, AB is adding a new role of Laboratory Technician II at the Gaithersburg site. This is an opportunity to join a growing organization and be part of a dedicated and innovative team.

## **Work Location**

AB's main office is in Gaithersburg, Maryland. This position is in the Gaithersburg office.

## JOB DESCRIPTION

**Job Title:** Laboratory Technician II  
**Department/Job ID:** Membrane department, R&D  
**Reports To:** Principal Scientist, Membrane Development  
**Direct Reports (if any):** N/A

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**Job Overview:** The Laboratory Technician II is responsible for evaluation of membrane performance, assists various aspects of membrane research and development, including new formulation and membrane characterization. The Laboratory Technician will collaboratively work with the Scientists and other members of Applied Biomimetic to develop innovative filtration membranes for various applications.

### **Role: Membrane Research and Development Support**

- Prepare necessary raw materials and samples, including mobile phase, feed solutions, buffer solutions, and scanning electron microscopy samples.
- Conduct polymeric membrane performance evaluation using a combination of techniques, including but not limited to high-performance liquid chromatography and UV-VIS.
- Analyze test data, log and report results and/or progress in a timely manner.
- Assist in test method development, maintain inventory of consumables, chemicals and supplies.
- Participate in the general upkeep and maintenance of the laboratory and equipment.
- Meet corporate and departmental goals.

Other Duties and roles as assigned.

### **Requirements:**

- B.S degree in chemistry with a minimum of two years of experience working in a research laboratory
- Experience with a wide range of analytical tools and techniques, incl: HPLC and UV-VIS
- Ability to thrive in a fast-paced environment, work short cycle times and flexible hours if required, and deliver results under pressure
- Ability to work independently and maintain a high level of quality of work
- Excellent written and verbal communication skills
- Detail oriented and efficient, follow good laboratory practice (GLP)
- Eligible to work is U.S

### **Additional Qualifications:**

- Experience with filtration membranes and wet chemistry.
- Proficiency with Microsoft Office and other software packages.
- A natural curiosity and interest in new technology and ground-breaking scientific developments