

About Applied Biomimetic (AB)

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 bio-tech, food, and dairy separation applications.

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.

Nature's ability to separate chemical elements at the molecular level is from the use of highly specialized proteins in the channels of cell walls, and this 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 it into a robust polymer structure, this achieves a unique membrane performance profile.

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 changing and sometimes harsh environment in various industrial applications.

AB is currently seeking an Associate Research Scientist to support the membrane research and development activities at its Gaithersburg, Maryland location. The position description and qualifications include but are not limited to the following:

Main tasks and responsibilities:

- Membrane formulation development and membrane performance evaluation
- Conception and execution of R&D projects (Initiate, formulate and develop experiments)
- Write research proposals, SOPs, technical progress and reports
- Communication of status updates and other relevant information to the manager
- Focus on details and efficiency in the laboratory, while exercising good laboratory practice
- General upkeep and maintenance of the laboratory facilities and equipment

The qualified candidate must have:

- A Master's Degree in Chemistry or Material Science with at least 3 years of experience or Ph.D in Chemistry or Material Science;

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- Ability to handle multiple projects in a dynamic environment
- Ability to deliver in a fast-paced environment and under time pressure
- Ability to work independently and maintain a high level of integrity
- Good communication and team player

Preferred Skills and Experience:

- Knowledge and experience with UF, MF membranes in flat-sheet and hollow fiber configurations
- Experience with chromatography (HPLC, GPC, SEC), spectroscopy (UV-VIS, FT-IR) and microscopy (SEM, TEM) and Viscometry
- Proficiency with Microsoft Office
- A natural curiosity and interest in new technology and ground-breaking scientific developments

No sponsorship for employment visa is offered for this position

Applied Biomimetic Inc. (www.appliedbiomimetic.com)