

About Vandstrom, Inc.

(www.vandstrom.com)

Vandstrom 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](#). Vandstrom 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.

Vandstrom 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 customers achieve high efficiency molecular separation in these "high value" fluid streams.

JOB DESCRIPTION

Job Title: Lab technician II

Department/Job ID: Membrane department, R&D

Reports To: Principal scientist membrane development

Direct Reports (if any): N/A

Job Overview: This role is to support membrane research and development including new formulation development and membrane characterization. The lab technician will collaboratively work with Principal Scientist, Scientist and other lab technicians for developing innovated filtration membrane for various application.

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 and quality control using high-performance liquid chromatography, UV-vis and other characterization techniques
- Analyze and enter test data to log sheet using Microsoft excel and being responsible of reporting test results and progress in timely manner
- Assist method development for testing innovated filtration membranes meet corporate and departmental goals
- Maintain inventory of consumable items including reagents, chemicals and supplies
- Participate in the general upkeep and maintenance of the laboratory and equipment including HPLC
- Organize the chemical and update chemical inventory
- Be focused on details and accountable for projects deliverables

Other Duties and roles as assigned

Requirements:

- B.S degree in chemistry with minimum 2 years R&D research lab experience
- Experience with following laboratory instruments: HPLC, 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 in work
- Effective communicator in both verbal and written forms
- Diligent; focus on details and efficiency in the laboratory while exercising good laboratory practice
- Eligible to work is U.S

Additional Qualifications:

- Prefer experience with filtration membrane and wet chemistry
- Prefer proficiency with Microsoft office