

About Us

Membrion's purpose is to create circularity of the world's most valuable resources. Our initial focus is on water, and we work with the world's largest companies to help them recover and reuse the wastewater they generate. Our award-winning ceramic desalination membranes enable us to efficiently treat impossibly challenging wastewater, such as those that would otherwise be trucked off-site to a 3rd party facility for disposal. As one of the best-funded and fastest-growing start-ups in water technology, we embody diversity and define success as living our core values of seeing what isn't obvious, being obnoxiously reliable, relentlessly flowing like a river, being all in this together, and being better each day. You can learn more about Membrion at membrion.com.

Position Title:	Postdoctoral Researcher – Membrane Product Development
Position Type:	Full-Time, Exempt, 2-Year Term-Limited
Location:	3257 17 th Ave W, Seattle, WA
Reporting To:	Dr. Emily Rabe, Director of Product Development
Salary Range:	\$80,000, with additional benefits and stock options

Position Description & Expectations

This individual will serve as the primary scientist responsible for membrane synthesis for a funded fuel cell membrane development grant. This role is focused on advancing Membrion's next-generation electrochemical membrane technologies to meet high-performance, durability, and scalability targets under fuel cell-relevant conditions.

Responsibilities

- Synthesize and modify ceramic-polymer composite membranes for fuel cells and related applications.
- Apply and optimize membrane fabrication methods using Membrion-developed and literature-informed processes.
- Set up, calibrate, and operate high-temperature and humidity-controlled testing equipment for electrochemical measurements (*e.g.*, electrochemical impedance spectroscopy).
- Measure ionic conductivity, resistance, and mechanical properties under simulated fuel cell environments.
- Collaborate with multidisciplinary teams including electrochemists, engineers, and materials scientists to interpret and apply findings.
- Draft and submit quarterly technical progress reports and other documentation required for grant compliance.
- Maintain organized experimental records, including detailed lab notebooks and data management systems.
- Ensure laboratory safety, equipment maintenance, and method standardization.
- Contribute to the broader goals of Membrion's Product Development team by supporting parallel R&D efforts when appropriate.
- Up to 50% of time may be devoted to special projects and assignments as needed to support cross-functional company initiatives.

Required Qualifications & Skills

- Ph.D. in Chemical Engineering, Materials Science, Chemistry, or related field.
- Expertise in electrochemical systems, with preference for candidates with fuel cell or electrolyzer experience.
- Strong hands-on laboratory experience in synthesis, processing, and characterization of functional materials, especially ion exchange membranes.
- Familiarity with electrochemical impedance spectroscopy, conductivity measurements, and electrochemical analysis.
- Demonstrated ability to design experiments, analyze data, and interpret complex results.
- Excellent written and verbal communication skills, with experience drafting technical reports.

Preferred Qualifications & Skills

- Experience in membrane development or fuel cell performance testing.
- Experience setting up and operating custom electrochemical test stands or humidity-controlled systems.
- Familiarity with government reporting systems.
- Strong collaboration skills and comfort working in an interdisciplinary R&D environment.

Core Values

To be successful at Membrion, you will need to embody our core values. The expectation is that you will live into these values while at work and while representing the company in public, including professional social media such as LinkedIn. Our core values are:

See What Isn't Obvious – This means looking deeply at what's already in front of us to find patterns, anomalies, and new opportunities. We cultivate an interest in the mundane such that curiosity leads us to knowledge. We are emotionally and cognitively invested in exploration and learning. We love to challenge the status quo and are comfortable with complexity, contradiction and paradoxes.

Relentlessly Flow Like a River – This means being single-mindedly determined to achieve our goal using the path of least resistance. We change plans flexibly, adaptably and rapidly in the face of unexpected roadblocks because we know, prepare for, and embrace the fact that the plan will need to change sooner than we think. Like a river, this allows us to overcome seemingly impossible obstacles through agility and persistence of effort.

Obnoxiously Reliable – This means delivering consistency in our behaviors and actions. Our word is as good as gold – we do what we say and do what's needed to keep our word. We plan for things to go wrong, and craft back-up plans for our back-up plan. We commit to deeply understanding what's needed to be successful by continuing to ask questions.

All in This Together – This means that success and failure is more about alignment than accomplishment. We value and nurture partnership and collaboration across all of our professional interactions. We support each other in the hard times and celebrate with each other in the good times. We live by the platinum rule at every level of community we exist within.

Better Each Day – This means embracing growth as a daily practice. We aren't satisfied with simply doing our best, but treat each day as a fresh opportunity to raise the bar. We believe progress is intentional, driven by reflection, iteration, and accountability, and that small wins compound into transformation. Even when things are working well, we have a hunger to explore how great we can become, knowing that excellence is a moving target.

Apply to this position on Indeed, LinkedIn, or by sending your CV and cover letter to stephanie@membrion.com.