



Senior Membrane Scientist

About Osmoses

Osmoses Inc. is a membrane technology company revolutionizing the way industrial separations are performed today! Industrial separation processes account for 15% of the world's energy consumption and are responsible for 16% of CO₂ emissions because we rely on energy-intensive technology. Changing this paradigm is one of the biggest opportunities to enable the energy transition.

Our mission is to re-design the backbone of the energy and chemical industry to make it more competitive and unlock new ways to produce and purify essential molecules. We bring together a dynamic group of scientists, engineers, business professionals, and operators from all over the world to develop and commercialize cutting-edge solutions that can reduce the impact of gas separations on the environment while increasing the economic incentive for our customers.

Join us! Together, we can create a future where cleaner, more abundant, and reliable energy is available to everyone, and more sustainable industrial processes become the norm.

Position Overview

Osmoses Inc. is looking for a Senior Membrane Scientist with a strong background in polymer science, membrane fabrication, and gas transport characterizations. As a member of our Product team, you will develop breakthrough membranes from concept to commercial skidded product. The role will involve the design of polymer and membrane materials for gas separations as well as fabrication and testing of membranes. The Senior Membrane Scientist will collaborate with the technology, engineering, and business teams to launch products from Osmoses.

What you'll be doing

- Develop structure-activity relationships of polymers for membrane gas separations to inform the Product team in their polymer design and synthesis.
- Fabricate polymers synthesized by the Product team into thick films and asymmetric membranes for testing.
- Evaluate the transport properties of membranes through single- and mixed-gas permeation experiments.
- Characterize membranes using analytical techniques such as TGA, DSC, and SEM.
- Collaborate with the Product and Implementation team to develop the criteria to qualify polymer materials for membrane development and manufacturing.

- Collaborate with the Product team to troubleshoot any issues in polymer and membrane development.
- Provide regular updates internally on the status of polymer and membrane development, including estimated costs and projected timelines, through written communication and presentations.

What we're looking for

- PhD in chemical engineering, materials science, membrane science, or a related field or equivalent experience.
- 2+ years industrial experience working as a materials scientist, chemical engineer, or membrane scientist in addition to the above.
- High-level proficiency in membrane fabrication methods such as hollow fiber spinning and phase inversion.
- Hands-on experience with gas permeation systems, gas chromatography, SEM, DSC, and TGA.
- Polymer synthesis capability is preferred but not required

What we can offer you

- Opportunity to contribute to addressing one of the biggest industrial decarbonization and energy efficiency challenges of this century.
- Work in the heart of the most innovative square mile in the world and the most exciting hub for clean tech.
- High leadership and growth potential joining our company at a critical stage with strong momentum backed by leading venture capital firms.
- Access to competitive salary and equity packages.

Qualities we're looking for

- Collaborative Team Player - You thrive in a team environment, actively seek diverse perspectives, and leverage collective strengths to find the best solutions.
- Accountable & Transparent - You're highly organized, communicate progress openly, and proactively adjust plans when challenges arise—always with a collaborative mindset.
- Clear & Impactful Communicator - You excel at both written and verbal communication, presenting research-backed, data-informed ideas to internal teams and external

partners with clarity and confidence.

- Agile & Adaptable - Comfortable in a fast-paced startup environment, you're quick to learn, willing to pivot, and ready to build expertise in new domains to support business needs.
- Safety-First Mindset - You prioritize the safety and well-being of yourself and your team in every aspect of your work.
- Technically Rigorous & Analytical - You bring strong problem-solving skills, sound reasoning, and a commitment to high technical standards.
- Detail-Oriented & Self-Directed - You manage multiple priorities with accuracy and focus, working independently and collaboratively to drive results. You're self-motivated and team-minded.
- Resilient & Growth-Oriented - You approach challenges with optimism and determination, maintaining a solution-focused mindset and a hunger to grow, adapt, and succeed.

Our commitment

You belong at Osmoses!

Osmoses is an Equal Opportunity Employer. We are committed to creating an inclusive environment for all employees. We do not discriminate based on race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age, or veteran status. All qualified applicants will receive consideration for employment without regard to these or any other characteristics protected by law.

If you're excited about making a positive impact on the environment and being part of an innovative team, we'd love to hear from you! Apply now and let's shape a greener future together!