



Product Qualification Engineer

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 preparing to build, qualify, and implement small- and large-scale pilots for the first Osmoses product line. The team will engage in process engineering, pre- and post-pilot membrane testing, and meticulous planning and design work guiding commercial-scale pilots.

The Product Qualification Engineer will collaborate with the product development, engineering, implementation and commercial teams to qualify and launch the first-generation prototypes and products from Osmoses into customers' hands. The engineer will collaborate to develop, implement, and maintain testing methods to qualify membrane coupons and fibers. This role will contribute to the qualification of Osmoses' product and the commercialization of membrane technology.

What you'll be doing

- ❖ Collaborate with engineering and business teams to define gas separation testing conditions for membrane coupons and membrane fibers. Refine existing product qualification criteria in cross-functional collaboration if necessary.
- ❖ Design, execute in-house and/or external gas separation experimental campaigns, evaluating membrane coupons and membrane fibers performance in diverse environments, including pure gas, mixed gas and field mixtures aligned with the qualification criteria
- ❖ Ensure timely testing and qualification of membrane coupons and membrane fibers with pure and mixed-gas feeds. This includes conducting tests, managing/ analyzing testing data, and validating data quality..
- ❖ Coordinate and manage specialized external testing of membrane coupons and membrane fibers as required for qualification.
- ❖ Maintain and update a database of testing contacts and internal project timelines, providing regular updates to the team.
- ❖ Create and maintain meticulous technical documentation, records, procedures, calibrations and operational guidelines for mixed-gas testing equipment and analytical equipment.
- ❖ Document and present qualification results, analysis and recommendations for continuation of product development and commercialization or product termination.
- ❖ Responsibility for the management, procurement, and maintenance of single-gas and custom mixture-gas cylinders for simulating a variety of feeds.

What we're looking for

- ❖ A Bachelor's or Master's degree in chemical engineering or a related field.
- ❖ A minimum of 3 years of industrial experience in the chemical, petrochemical, or energy industry.
- ❖ Experience testing membrane samples as coupons and/or hollow fiber/spiral wound mini-modules using single and mixed gasses.

- ❖ A strong fundamental understanding of laboratory scale testing equipment (valves, fittings, pressure & temperature transducers) as well as analytical instrumentation and gas chromatographs and sensors.
- ❖ Proven ability to design or oversee the design and perform a critical design review of complex automated membrane test equipment
- ❖ Proven ability to design, conduct, and document experimental campaigns, evaluating membrane performance in diverse environments, including simulated mixtures.
- ❖ Ability to work alone and collaboratively to achieve company goals.
- ❖ Capability to contribute effectively within cross-functional teams in all roles.

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!