



Position Title	Product Engineer
Location	Burnaby, BC
Reports to	Product Engineering Lead

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## Summary

Greenlane Renewables Inc., headquartered in metro Vancouver, Canada, is a leading global provider of biogas upgrading systems that are helping decarbonize natural gas. Our systems produce clean, low-carbon and carbon-negative renewable natural gas (RNG) from organic waste sources including landfills, wastewater treatment plants, dairy farms, and food waste, suitable for either injection into the natural gas grid or for direct use as vehicle fuel. With multiple core technologies, more than 125 biogas upgrading systems sold into 19 countries and counting, and over 30 years industry experience and patented proprietary technology, Greenlane is inspired by a commitment to helping waste producers, gas utilities or project developers turn a low-value product into a high-value renewable resource. Greenlane is a publicly-traded company on the Toronto Stock Exchange (TSX: GRN).

The Product Engineer drives the engineering development and application of modules and assemblies used in the renewable gas industry. In this role you will apply solid engineering fundamentals to develop creative solutions that will improve product performance and reliability. You will work directly with the Greenlane engineering team, suppliers, manufacturers and external service providers to execute design activities that will create verified, cost effective solutions. After establishing component level requirements, you will be involved in all phases of product development including coordination of design activities, design reviews, verification, documentation, procurement, manufacturing, application engineering and field service assistance. The Product Engineer will work closely in a cross functional engineering team to develop components and subsystems for Greenlane's biogas upgrading systems.

## Key Duties & Responsibilities

- Generate engineering design requirements and specifications for components and subsystems.
- Follow established engineering Product Development Processes including failure mode analysis and verification to ensure components and systems meet technical requirements.
- Provide justification of design proposals through engineering calculations, analysis, modelling, and creation of supporting engineering documentation.
- Lead product development planning, working cross-functionally with engineering, procurement and the sales team as necessary.
- Follow Engineering Change Requests to enhance and document designs.
- Conduct root cause analysis and problem solving.
- Evaluate design alternatives for optimization of cost and quality.
- Conduct design reviews and continuous improvement activities.
- Interface with equipment suppliers, fabricators, and internal supply chain to source components and systems.
- Assist in the creation of high quality production level drawing and document packages.
- Support the development of Factory Acceptance Testing, product documentation and quality control systems.
- Assist in reviewing and summarizing relevant process codes and regulations for input into company design processes.
- Support commissioning activities for components remotely or on-site as necessary.
- Some travel may be required (with consideration for COVID regulations).

## Qualifications and Experience

- Engineering Degree in Process Engineering is required plus 7+ years of related experience.
- Professional Engineering accreditation (P. Eng) is considered an asset.
- Experience in a Product Development or a Design Engineering role.
- Proven mechanical and process aptitude and understanding of fundamental engineering concepts.

- Experience conceptualizing and designing complex process and mechanical systems and assemblies interlinked by mechanical and fluid systems.
- Knowledge of fluid dynamics, heat transfer, thermodynamics, mechanical dynamics and process systems.
- Experience with product development processes such as Requirement Documentation, Verification and Validation Plans and Reports, and DFMEAs or HAZOPs.
- Experience with reading, understanding and revising P&IDs and GA drawings.
- Engineering and product development experience in the renewable energy or oil & gas sectors.
- Practical understanding of manufacturing & engineering processes and the ability to analyze and solve problems.
- Experience with industrial controls design and logic.
- Knowledge of materials compatible with natural gas and hydrogen sulfide.
- Knowledge of process simulation or fluid dynamic modeling is an asset.
- General understanding relevant design standards including NFPA-52, CSA, UL, ISO, ASME Piping, Boiler and Pressure vessel codes.
- Knowledge of statistical methods and data analysis.
- Familiar with PLM tools.
- Experience with BOM creation and management.
- Ability to use Microsoft Office Products such as Word and Excel or equivalent software. Working knowledge of Google Suite is an asset.
- Strong work ethic and the ability to provide exceptional teamwork in order to fully support engineering and other internal teams in meeting tight deadlines.
- Strong organization skills and attention to detail.
- Excellent communication skills, both written and oral with the ability to work with international colleagues.
- Great attitude, personable, courteous and a great team player.
- Can-do, positive, proactive attitude and capable of working independently with minimal supervision.
- Ability to work under pressure and stay focused in a fast-paced environment.

**How to Apply:**

We are an equal opportunity employer and invite applications from all qualified individuals. To apply for this opportunity please submit your application via Greenlane Renewables LinkedIn page or send your resume and cover letter to [hr@greenlanebiogas.com](mailto:hr@greenlanebiogas.com) with the job title in the subject line. While we thank all interested candidates only those who are short-listed will be contacted.