HYPHEN Hydrogen Energy (Pty) Ltd
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HYDROGEN ENERGY
HYPHEN

21 November 2023

Vacancy

Senior Process Engineer (Full-time or Part-time)
Job Description

ABOUT HYPHEN

Hyphen Hydrogen Energy (Pty) Ltd is a Namibian registered green hydrogen development company, specifically formed to develop green hydrogen projects in Namibia for international, regional and domestic supply. Hyphen is a joint venture between Nicholas Holdings Limited and ENERTRAG SE. Hyphen's project is being developed as the first step in the implementation of the Government's strategy for the development of a large-scale green hydrogen industry in various regions in Namibia to support both economic growth in Namibia and assist the world in achieving its decarbonisation goals. At full scale development, the project will produce 2 million tonnes of green ammonia annually before the end of the decade for regional and global markets, from ~7GW of renewable generation capacity and ~3GW of electrolyser capacity, cutting 5-6 million tonnes (annually) of CO2 emissions, with Namibia's annual 2021 emissions totalling 4.01 million tonnes.

ABOUT THE ROLE

We are seeking a Senior Process Engineer having a strong background in design of process plants for hydrogen and ammonia plants equipment with experience in chlor-alkaline and/or water electrolyzers to support the Hyphen Green Hydrogen Project in developing, managing, and executing the green hydrogen project from engineering to completion. This project, being one of the most advanced large scale green ammonia projects globally, represents a major step towards decarbonising the energy sector and achieving global sustainability goals. The ideal candidate will have a good understanding of engineering principles and practices, design codes and standards and process simulation tools as well as proven work experience in basic & detailed engineering, commissioning and start-up of process plants for the production of industrial gases and or base chemicals.

DUTIES AND RESPONSIBILITIES

- Take charge of the conceptual design and simulation of diverse process plants, encompassing hydrogen, nitrogen, and ammonia production.
- Evaluate various process solutions with a keen focus on techno-economic viability, safety considerations, and reliability.

- Collaborate closely with the system modelling team to optimize the overall plant configuration, ensuring efficiency and functionality.
- Interact proactively with technology providers and licensors, staying informed about the latest market trends and advancements.
- Review and approve documentation and process specifications generated by the Owner's Engineering team and/or the Engineering, Procurement, and Construction (EPC) contractor(s).
- Provide crucial support to the Technical Director in the development and management of the technical workstream for the green hydrogen project, overseeing all phases from feasibility to successful completion.
- Maintain a dynamic interface with and provide supervision to the Owners Engineering team, fostering seamless coordination for effective project execution.
- Collaborate with the Hyphen environmental team and external contractors to define emissions from process plant sections, and give input to the Environmental Impact Assessment (EIA) process.
- Maintain continuous communication with internal stakeholders, actively gathering requirements, and offering dedicated technical support as needed.
- Assist in the preparation and submission of permit applications, with a focus on early identification of permit requirements to expedite the approval process.
- Prepare and deliver comprehensive technical reports tailored for both internal and external audiences, effectively communicating complex concepts.
- Provide essential process input to the development of risk registers and the formulation of project risk mitigation strategies.
- Actively participate in team meetings and collaborative sessions with vendors, fostering a cohesive and cooperative working environment.
- Compile key project feasibility reporting deliverables, contributing significantly to the overall success and viability of the project.

QUALIFICATIONS AND EXPERIENCE

- Master degree in process engineering or similar background.
- 10+ years of experience in practical work in simulation and designing of process plants. Professional registration is a plus, but not a precondition.
- Experience with hydrogen and ammonia plants in design and/or operation.
- Motivated, committed, highly ethical and pragmatic.

- Strong communication and interpersonal skills.
- Ability to work independently and as part of a team.
- Proficiency in Microsoft Office Suite
- Strong understanding of techno-economic considerations

LOCATION: Windhoek, Namibia. Travel to the Project site and local towns would be required from time-to-time.

SALARY & BENEFITS:

- Competitive salary and benefits package.
- Opportunity to work on a global flagship project, which is both challenging and rewarding.
- Becoming part of an early mover project in a new global energy industry, which is still being shaped.
- Chance to make a difference to the world, and potentially an intergenerational opportunity for Namibia.
- Collaborative and supportive work environment interfacing with multi-dimensional workstreams and stakeholders.

TO APPLY:

HYPHEN extends equal opportunities to all candidates, valuing diversity in experiences and backgrounds. We exclusively accept applications for this role through our recruitment portal, www.jobportunities.net. Ensure your application includes a well-crafted cover letter, a comprehensive CV, and authenticated copies of relevant qualifications. **For assistance on the portal, please contact the Tara Nawa team at +264 64 402403.**

If you are a highly motivated, hard working and experienced process engineer, who is adaptive and passionate with a strong techno-economic understanding, we strongly encourage you to apply. Experience in creative problem solving and de-risking of projects at an early stage is welcome. A track record working on African projects is a plus. Willingness to travel is a requirement.

CLOSING DATE: Friday, 01 December 2023