HYPHEN Hydrogen Energy (Pty) Ltd
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HYDROGEN ENERGY
HYPHEN

21 November 2023

Senior Mechanical 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 Mechanical Engineer having a strong background in design of process plant equipment (static and rotating) 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 as well as proven work experience in basic & detailed engineering, commissioning and start-up of process plant equipment.

DUTIES AND RESPONSIBILITIES

- Responsible for screening and evaluation of electrolyzer equipment, ensuring adherence to stringent technical, safety, and reliability standards.
- Proactively engage with suppliers and Original Equipment Manufacturers (OEMs) to remain abreast of the latest market trends and developments, contributing valuable insights to the project's technological landscape.
- Assume responsibility for the review and approval of documentation and specifications generated by the Owner's Engineering team and/or the Engineering, Procurement, and Construction (EPC)

contractor(s) pertaining to process plant equipment.

- Collaborate closely with the Technical Director in orchestrating and overseeing the technical workstream of the green hydrogen project, demonstrating a commitment to managing all phases from feasibility to successful completion.
- Maintain a dynamic interface with and provide supervision to the Owners Engineering team, fostering seamless coordination and efficient project execution.
- Collaborate with the Hyphen environmental team and external contractors to define emissions associated with process plant equipment, and provide input to the Environmental Impact Assessment (EIA) process.
- Ensure ongoing and transparent communication with internal stakeholders, facilitating the gathering of requirements and offering dedicated technical support as needed.
- Play a key role in the preparation and submission of permit applications, with a keen eye on early identification of permit requirements to expedite the approval process.
- Conduct thorough techno-economic analyses, enabling the selection of the most optimal technical solutions while concurrently optimizing project economics.
- Prepare and deliver technical reports tailored for both internal and external audiences, effectively communicating complex concepts.
- Provide crucial technical input to the development of risk registers and the formulation of project risk mitigation strategies.
- Conduct regular visits to Lüderitz and the project location for technical evaluations and stakeholder engagements, reinforcing a hands-on and proactive approach.
- Actively participate in team meetings and collaborative sessions with vendors, ensuring a cohesive and cooperative working environment.
- Compile and deliver key project feasibility reporting deliverables, contributing to the overall success of the green hydrogen project.

QUALIFICATIONS AND EXPERIENCE

- Master degree in mechanical engineering.
- 10+ years of experience in practical work in basic and detail engineering of process plant equipment.
- Professional registration is a plus, but not a precondition.
- Experience with hydrogen generation from electrolyzers 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 mechanical 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