

United Arab Emirates Jobs Expertini®

(Global Petrochemical) Research Scientist Lead - Blue Ammonia

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Company: MatchaTalent

Location: Dubai

Category: healthcare-practitioners-and-technical

This role required candidate to permanently relocate at Jubail, Saudi Arabia.

About the Company

Founded in the late 1970s in Saudi Arabia's oil-rich region, this multinational corporation has solidified its position as a global leader in the petrochemical sector. With a diverse product portfolio ranging from chemicals and intermediates to polymers, agri-nutrients, and metals, the company has expanded its operations across 50 countries. Prioritizing innovation and sustainability, it boasts state-of-the-art research centers and a staunch commitment to environmental responsibility. As a testament to its excellence and influence, the firm actively fosters strategic global partnerships, continuously setting benchmarks in quality and industry standards.

Job Summary

Lead/Staff Scientist Sustainability and Energy Technologist is expected to Initiate, Propose and Execute research and development, Debottlenecking/Revamp, Energy saving, Sustainability improvement programs directed towards the improvement of processes and commercial technologies.

Lead in-house new process technology development, scale up & implementations in commercial plants. Provide technology solution to improve energy consumption in commercial plants for the conventional operation, turnover, and re-commissioning as needed. Provide trouble-shooting & Root cause analysis support and drive problem resolution for commercial plants. The Sustainability and Energy technologist is required to support in Growth Projects and evaluate energy efficiency of multiple designs of blue ammonia plants, be aware of the differences of available licensing technology from main licensors and the impact on energy in each configuration, support the project team to select the most efficient

technology.

Key Responsibilities:

- Provide guidance and conduct an energy assessment to select the optimal technology for Blue Ammonia development and process configuration.
- Possess knowledge of industry decarbonization solutions and their integration into technology selection.
- Generate energy efficiency reports and implement improvements in commercial plants.
- Develop a plant-wide model to monitor and guide energy consumption and performance improvements.
- Conduct energy and mass balance calculations, energy optimization and pinch studies, pump calculations, feasibility studies, and revamp studies.
- Independently review engineering documents and ensure optimal technology selection and improvements in energy balance.
- Collaborate with external companies, start-ups, and universities to lead projects for plant implementation.
- Offer insights, guidance, and support for product development within the group.
- Actively promote a safety culture, mentor young employees, and initiate new safety initiatives.

Requirements

- Relocation**: Permanent relocation to Jubail, Saudi Arabia.
- Preferably holds a Master's or PhD degree.
- Minimum of 15 years of experience in new product development, with a preference for experience or collaboration with start-ups.
- Strong strategic thinking and planning abilities.
- Leadership skills to effectively work with and influence individuals from diverse disciplines and cultures.
- Capable of creating, nurturing, and promoting a culture of innovation.
- Excellent interpersonal and communication skills.
- Highly self-motivated and proactive.

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