

Job Opening

Procurement Engineer



Overview

Electrochaea GmbH is seeking an experienced Engineering Manager to support technology commercialization for its biological methanation process. The Company's developing a disruptive new technology for conversion of carbon dioxide into methane, uses renewable power and a variety of CO₂ feed stocks. Electrochaea's power-to-gas technology represents a commercially viable solution for utility-scale energy storage, grid balancing, and carbon recycling.

The core of the technology is a proprietary biocatalyst – an adapted strain of methanogenic archaea, a single-celled anaerobic microorganism – which efficiently converts hydrogen and carbon dioxide into pipeline-grade methane for direct injection into the existing natural gas grid.

The Company is commercializing this power-to-gas technology in markets with high penetration of wind and solar energy (Denmark, Sweden, Germany, Benelux countries, UK, California, etc.), where the intermittent nature of renewable energy sources leads to prolonged periods of excess electricity production. Favorable markets are also defined in terms of electricity prices, incentive schemes and existing infrastructure.

Description of Position

The Procurement Engineer will provide the primary interface between the Company and vendors, EPC contractors, partners, site owners, and suppliers for contract negotiations and for QA of documentation required for bids, qualification of suppliers and contractors. Other important duties will be to provide insight to Engineering, Technology and Business Development team on compliance with relevant standards and to work with project managers to organize HazOp, safety, and environmental reviews and documentation.

Detailed Main Tasks and Activities

- Development of engineering contracts and specifications for contractors
- Contractor and vendor bid evaluation and selection based on technical and economical considerations
- Proactive Engineering interface with partners and EPC contractors
- Overall responsibility for the timely delivery of engineering work
- Responsible for signing off on engineering decisions and documentation throughout the project
- Review of engineering calculations and reports for equipment design and sizing
- Evaluation of risk and economic analysis of potential technologies and engineering design changes
- Determine, in conjunction with management, the engineering organization for the projects
- Preparation of man-hour estimates for engineering activities and the effect on project schedule
- Liaise with the project manager to ensure the development of achievable detailed schedule for all engineering activities consistent with the overall project schedule
- Understand constructability issues and potential for cost optimization and ensure these are reflected in the design
- Identify areas of concern with respect to the progress of assigned engineering tasks and recommend corrective actions whenever required
- Provide consultancy on engineering systems to other business streams
- Organize and participate in Hazard and Operability (HazOp), Safety Integrity Level (SIL) and project health, safety and environment reviews

Qualifications

The ideal candidate will have the following qualifications and capabilities:

- B.S. or higher degree in engineering (mechanical, chemical or a related discipline) with minimum 10 years professional experience in a gas processing related industry
- Strong technical background in continuous process operations (refining, chemicals, gas, pipeline, or renewable fuels processing) including process plant support experience
- Thorough understanding of the requirements and ability to produce all contract engineering documents including general conditions of contract, scope of work, specifications and standards, etc.
- Thorough knowledge of process engineering documents including, PFD, M&E balance, P&ID, specification and data sheets
- Solid understanding of constructability and construction practices
- Detailed knowledge of European Union engineering standards including the PED and ATEX codes

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- Demonstration of performance in safety, health, and environmental management
- Participation in process hazard operations reviews
- Strong written and verbal communication skills

Minimum requirements for the position will include:

- Fluency in written and spoken English and at least one other European language
- Ability to communicate effectively with multiple audiences and different levels of the organization
- Ability to develop and work within a budget
- Track record of interacting creatively, collaboratively, and productively with other disciplines

Additional details and requirements:

- Salary will be commensurate with experience and capability
- Letter of application/intent
- CV
- Names/contact information for three professional references
- Please send your application to jobs@electrochaea.com along with a brief statement of your interest in this position, career goals, availability, resume, and expected compensation.

All interested candidates irrespective of age, gender, disability, race, religion or ethnic background are encouraged to apply.