

Project Managers / Engineering Managers

Overview

Electrochaea GmbH is seeking Project Managers / Engineering Managers to support technology commercialization for its biological methanation process. The Company is 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

You will be part of a dynamic and international group, working with an innovative new technology with international appeal. Working in a small, but growing team to further develop our methanation process, you lead the effort to prepare design documentation such as P&IDs, PFDs, Mass & Energy balance, equipment lists, specifications, datasheets etc.

This position is based in Planegg/Munich and will also be part of the team interfacing 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 the Project, Technology and Business Development teams on compliance with relevant standards and to work with other team members to organize HAZOP, safety, and environmental reviews and documentation.

Detailed Main Tasks and Activities

- Cost, Schedule and Quality Control on Projects with varying sizes
- Creation & development of engineering packages such as 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.
- Preparation and 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 (process, chemical, mechanical or a related discipline) with minimum 4 years professional experience in the process industry.

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- Good understanding of Project Management systems and practices, Project phases and relevant information flows
- Strong technical background in continuous process operations (refining, chemicals, gas, pipeline, or cleantech, renewable fuels processing or equivalent)
- Thorough understanding of the requirements and ability to review and produce engineering documents including scope of work, specifications and standards, etc.
- Thorough knowledge of process engineering documents including PFD, M&E balance, P&ID, specification and data sheets
- 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, German
- 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
- Willingness to travel

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.