

Job Opening

Senior Scientist Biotechnology (f/m/d)

Overview

Electrochaea GmbH is seeking a highly motivated and experienced Senior Scientist Biotechnology to support the development and optimization of Microbial Electrochemical Technologies applied to biological methanation. The Company is developing a disruptive new technology for conversion of carbon dioxide into methane, using renewable power and a variety of CO₂ feed stocks. Electrochaea's main 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.

Description of Position

The scientist biotechnology will be part of a dynamic, international, and multidisciplinary team, working with an innovative new technology with international appeal: You will ensure significant process and quality optimization of our proprietary Methane Production Bioelectrochemical System with a strong focus on electrochemical, chemical, and biological process parameters and on the implementation of suitable process analytics. In cooperation with the development team and external partners, you will be responsible to plan, execute and evaluate new Bioelectrochemical system's designs and the optimization of the associated process operation. Through close contact with development and engineering teams you will develop the basis for reactor optimization and scale-up.

Qualifications

The ideal candidate will have the following qualifications and capabilities:

- PhD in electrochemistry, bio-electrochemistry, bio-electrosynthesis, electrocatalysis or related disciplines
- At least 2 years of Postdoc and /or industrial experience
- Strong leadership and communication skills
- Proven ability to lead, plan and develop funded project schedules and work within a budget
- Deep understanding of electrochemical processes, ideally with a biotechnology background
- Strong ability to analyze technical problems in a solution-oriented manner
- Highly goal oriented and independent working style, ability to critically reflect and challenge the results obtained.
- Flexible and able to work well in a dynamic environment
- Excellent organizational and prioritization skills with the ability to handle multiple projects at once

- Able to interact comfortably, confidently, and professionally with all levels of the organization and external partners

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 (subject: Senior Scientist Biotechnology) along with a brief statement of your interest in this position, career goals, availability, resume, and expected compensation

We offer:

- An interesting, responsible and varied job
- Participation in highly motivated and international team
- Short decision-making processes and plenty of room for your own initiative
- A mobility subsidy (full coverage of MVG ticket or monthly gas voucher)
- Subsidized Urban Sports Club membership
- Staff canteen with subsidized lunches
- Free fruit and coffee

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