

PostDoc position

in the field of

Fluidized bed microbial anodes for wastewater treatment

Starting from summer 2018, the Research Group **Environmental Process Engineering** at the University of Bremen (Germany) seeks candidates for a 2-year PostDoc position in the field of fluidized bed microbial anodes for the treatment of industrial wastewater. Potential candidates should hold a PhD in

Chemical & Environmental Engineering, Material Science, Chemistry, Physics (or related fields)

Your task

In close collaboration with project partners from chemistry, microbiology, and industry you will be responsible for the design, construction, and characterization of a fluidized bed microbial anode operating on high-strength industrial waste water. Initially, the project tasks include the construction of a test cell, the characterization and identification of suitable electrode particles, and the evaluation of operating strategies. Furthermore, electrochemical techniques such as impedance spectroscopy will be employed to identify limiting factors and mechanisms. Finally, the reactor will be operated with industrial wastewater and extensively characterized.

Your profile

We are looking for a highly motivated individual with excellent scientific record. Successful candidates must be good experimentators and possess strong communication skills. Ideally, the candidates are adept to scientific publication and have previous experience in electrochemistry, microbiology, and bioreactor engineering.

What we offer

The University of Bremen and its **Center for Environmental Research and Sustainable Technology** offer an excellent scientific environment for interdisciplinary research. The full-time position is affiliated to the Research Group **Environmental Process Engineering**. Our interdisciplinary research is focused on fundamentals, materials, and processes for sustainable environmental engineering and biotechnology.

For further inquiries and applications please contact:

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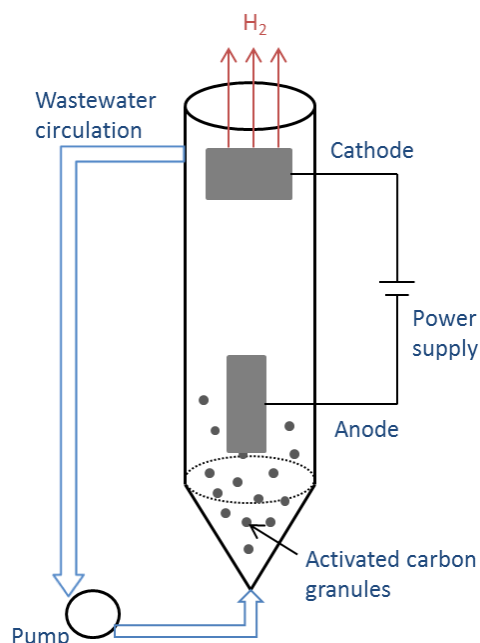


Fig 1. Example of a fluidized bed microbial electrolysis cell.