

## Job offer

In the heart of Nuremberg "Auf AEG", the Chair of Energy Process Engineering works on new technologies and concepts for a **low-CO<sub>2</sub> energy supply**. The focus of our work in teaching and research is the efficient use of **renewable energies**, the synthesis of **second generation fuels** and their use in fuel cells, energy management system considerations, and **biocatalytic energy systems**. The associated Junior Group of Prof. Herkendell works on enzymatic and microbial electricity-enhanced conversion systems, specifically in the field of electromethanogenesis.

For the Junior Group, we are looking for someone to strengthen our team from **01.10.2022** as

## PhD Student/Research Assistant

(TVL E-13, 70-100% depending on qualification level, full-time)

for the field of electro-microbiology with a focus on experimental development, analysis and simulation with strong emphasis on microbial methanation and bioelectrochemistry.

The area of responsibility includes, among other things:

- Coordination and work on research projects in the field of electromethanogenesis
- Conception, construction and operation of electrochemical test facilities
- Numerical simulation in the context of electromethanogenesis
- Handling and analysis of microbial cultures
- Interaction with project partners, including travels within the EU
- Participation in teaching and supervision of student work and project administration

Qualification:

- Completed university degree (Master, Diploma) with **above-average academic success** in the fields of **bioengineering and biology**, or in chemical/ energy/ process engineering or chemistry **with in-depth experience in applied microbiology or bioelectrochemistry**
- Advanced **English** skills are mandatory (C1 level and higher); German skills or the willingness to learn German are advantageous. Work permit for the EU is necessary.
- Prior biological and electrochemical knowledge and safe handling of microorganisms are mandatory.
- Prior knowledge of **simulation** programs (e.g. FLUENT, ASPEN, FactSage, IPSEpro) and manual skills for handling test systems are desirable.
- Prior experience in administratively managing large international research grants is advantageous.

For information and a description of the planned projects, please contact:

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Applications can be submitted in German or English. Please send your application (including application letter, CV, references, publication list, relevant certificates, overview of research activities and relevant experience) as **one combined PDF** document by email to [evt-sekretariat@fau.de](mailto:evt-sekretariat@fau.de) by **31.07.2022**.