

**Ph.D. Student (f/m/d) of Postdoc (f/m/d) for the “Electrolysis for CO<sub>2</sub>-Reduction to Fuels and Chemicals”****Job description:**

Contribute to the energy transition of our society via enabling new power-to-chemicals/fuels processes. You will join a team that investigates new electrolysis processes for synthesizing valuable fuels and chemicals from the waste product CO<sub>2</sub> and renewable energy. Your research will focus on enabling an efficient electrolysis process including cell design and optimization. Your work will be interdisciplinary, with experimental analysis and modeling on cell (component) level and product analysis. Based on your research findings, you will derive essential and technically relevant insights into the processes and limitations and evaluate pathways to improve performance.

**Personal qualifications:**

You have an excellent M.Sc. or Ph.D. degree in the field of engineering, chemistry or physics with knowledge on reaction or surface processes, transport processes and continuum modelling. Prior knowledge in electrochemical (engineering) or analytical methods is appreciated. Furthermore, you show enthusiasm for scientific and interdisciplinary problem analysis and identifying feasible solutions and are interested in interdisciplinary work including modelling and lab work. We expect initiative, independent work, creativity, ability to work in a team and good communication skills in English.

**We offer:**

Join one of the leading groups in model-assisted electrosynthesis of fuels and chemicals and the excellent research environment at KIT. We are a motivated and creative team that thrives to shape the transition and electrification of the chemical industry. We appreciate commitment, offer an attractive and modern workplace with access to the excellent facilities of KIT and a wide range of training opportunities. Our open and encouraging working atmosphere offers you a diverse job with a lot of freedom for your own ideas.

We provide flexible working time models, a supplementary pension according to VBL and a subsidy for the Job Ticket BW and a canteen.

**Salary:**

The salary is based on the public sector salary agreement in the salary group TV-L E13 (full time)

**Institute:**

Institute for Applied Materials –  
Electrochemical Technologies (IAM-ET)

**Contract duration:**

2,5 years, with the possibility for extension

**Start date:**

01.09.2025

**Application deadline:**

15.05.2025

**Contact person:**

For further information, please contact Dr. Philipp Röse, e-mail: [philipp.roese@kit.edu](mailto:philipp.roese@kit.edu), phone: +49 721 608 47569

**Application:**

Please send your application documents including curriculum vitae and certificates (incl. bachelor and master grades) in electronic form to <https://www.pse.kit.edu/karriere/joboffer.php?id=165066>.

We aim to fill as many positions as equally as possible (f/m/d) and would therefore be particularly pleased to receive applications from women. If suitable, severely disabled persons will be given preferential consideration.