



MTA-SZTE „Lendület” Photoelectrochemistry Research Group

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Sponsored by: the Hungarian Academy of Sciences

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Open position for postdoctoral researchers

The JanákyLab aims to use sunlight to convert CO₂ to basic chemicals (such as syngas or ethylene) and thus achieving the simultaneous generation of green chemicals and environmental remediation of carbon emission. Our research is supported by the European Research Council (ERC Starting Grant), the H2020 Program (FlowPhotoChem, NMBP) and the Hungarian National Government. Our group is also part of the Excellence Center for Functional Surfaces at the University of Szeged.

We are currently looking for **two postdoctoral researchers** in conjunction with our new H2020 FlowPhotoChem and CO₂ conversion scale-up projects, to be started in February-March 2020. The two positions are the following:

1. We are looking for a highly motivated postdoctoral researcher with hands-on experience in continuous-flow electrochemistry. Previous experience with membrane electrode assemblies (MEAs) and/or PEM electrolyzers is an advantage. The task will be to develop new microstructured MEAs for CO₂ conversion.
2. We are looking for a highly motivated postdoctoral researcher (favorably chemical engineer), with relevant knowledge in fluid dynamics modeling and reactor design/engineering. The topic of the fellowship will be the modeling and simulation of continuous-flow electrochemical cells for both electrochemical and photoelectrochemical CO₂ conversion.

Motivated applicants are kindly requested to send their motivation letter, CV, and a list of publications via email. Please also indicate two references who can be contacted.

We offer a dynamic working environment, state-of-the-art facilities, and competitive salary.

Timeframe: 03/01/2020-03/01/2022 (can be extended up to 3 years).

Application deadline: 02/01/2020 the latest (but positions may be filled upon finding appropriate candidates earlier)

If you are interested, or have any questions, please contact Csaba Janáky to discuss this further. E-mail: janaky@chem.u-szeged.hu

