

Postdoctoral Positions in the Laboratory of Renewable Energy Sciences and Engineering

The Laboratory for Renewable Energy Sciences and Engineering (<http://lrese.epfl.ch/>) at École Polytechnique Fédérale de Lausanne (EPFL) has an opening for a *postdoctoral* position in in the field of coupled experimental-numerical investigations of photoelectrochemical devices. The researcher will be involved in two subprojects:

- Prototype device modeling, and experimental implementation and testing, for LRESE's project SHINE – Solar Hydrogen Integrated Nano Electrolysis (<http://shine.epfl.ch/>)
- Numerical modeling of transient effects in photo-electrochemical devices.

We offer a challenging and fun work environment in collaboration with Swiss academic partners in a young and dynamic research group. We pay highly competitive salaries (around 80k\$ for postdoctoral positions) with full benefits.

Requirements:

The successful applicant will be responsible for modeling efforts in photo-electrochemical devices. Therefore, we encourage applicants with a strong numerical/modeling background, experience in electrochemical device modeling; strong background in electrocatalysis, photocatalysis or photoelectrochemistry, and electrochemical systems (fuel cells, electrolyseres, batteries); and a holistic view on photoelectrochemical processes and devices.

Additionally, background in heat, mass, and charge transfer (especially radiation), fluid flow, semiconductor physics, and chemistry are required for the projects. Experience with experimental measurement methods and device manufacturing are beneficial but not required.

Ideal applicants are expected to have completed their doctorate at the start of the appointment. The ability to work within a collaborative environment, good communication and organizational skills, and scientific initiative are paramount.

Starting date: June to September 2015

Application:

An application letter including curriculum vitae with a list of publications, a statement of research, and contact details for three references should be sent via email to Prof. Sophia Haussener (sophia.haussener@epfl.ch).

Prof. Sophia Haussener

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