

## *Doctoral 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 *doctoral* position in the field of modeling and optimization of photoelectrochemical devices. The project is part of LRESE's project SCOUTS – Strategic computation and optimization of unified templates for solar fuels. The subproject goal is to develop advanced multiphysical multi-scale models of particle-based photoelectrochemical and photocatalytic solar fuel 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 50k\$ for doctoral positions) with full benefits.

#### **Requirements:**

Ideal candidates should possess a Bachelors and/or Masters in mechanical engineering, applied physics, chemical engineering, material science, or related disciplines and have experience in one or more of the following areas: (photo)electrochemistry; semiconductor physics; heat, mass and charge transfer; and advanced numerical methods. Knowledge of any programming language (Fortran, C++), Matlab and commercial/open source computational multi-physics software (Ansys, Fluent, Comsol, OpenFoam) are required. Experience in experimental measurements are desired.

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, a list of publications if any, a statement of interest, transcripts, and contact details for three references should be sent via email to Prof. Sophia Haussener ([sophia.haussener@epfl.ch](mailto:sophia.haussener@epfl.ch)).

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#### **Prof. Sophia Haussener**

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