



DLR – DAAD Fellowships

Fellowship No. 398

Research Area : Energy

Research Topic: Process system analysis of fuel flexible-, poly-generation Solid oxide fuel cell – battery hybrid systems

DLR Institute: Institute of Technical Thermodynamics, DLR Stuttgart

Position: Doctoral Fellow

Openings: 1

Job Specification: There is an opening for a doctoral fellow with the Department of Electrochemical Energy Technology to work in the area of process engineering of fuel flexible-, poly-generation Solid Oxide Fuel Cell (SOFC) systems. The fellow will conduct research on the process system analysis of SOFC systems capable of working on different fuels such as methanol, LNG, synthetic fuels etc. The concept study should find useful application for heat such as cooling or use in other process etc. The candidate should investigate hybridization of the systems with battery for fast load following applications.

Required Qualification: Master degree from an accredited university in the area of process system engineering, chemical engineering, process system control or energy engineering is required. The candidate should solid background in engineering thermodynamics.

Advantageous Skills: You must be self-driven who can engage in conducting the experimental work independently and support the team members to move ahead with their research. You should have following set of skills:

- Excellent knowledge of process system engineering and engineering thermodynamics
- Experience in SOFC systems/experimental studies on SOFC's is not a must but valued.

- Knowledge in basic principles of fuel cell, electrochemistry or reaction engineering is appreciated
- Excellent level of oral and written English

English competence: See requirements on www.daad.de/dlr

Earliest Start Date: August 1st 2019. The position is for 36 months with possibility of extension for 12 further months

Application Deadline: Until the position is filled

Further Information: <http://www.dlr.de>
<http://www.daad.de/dlr>