



Zentrale Universitätsverwaltung Abteilung 3 - Personal

**735/2016**

Halle (Saale), 24.06.2016

External Open Position Announcement Reg.-Nr.: 4-5721/16-D

The Center for Innovation Competence (ZIK) SiLi-nano – Silicon and Light: From Macro to Nano – is performing research on nanostructured materials used in solar energy conversion and will be adding two additional groups of young research scientists. SiLi-nano is jointly funded by the Institute of Physics and Chemistry at the Martin Luther University, the Max Planck Institute of Microstructure Physics, the Fraunhofer Institute for Microstructure of Materials and Systems and the Fraunhofer Center for Silicon Photovoltaics. The center is largely autonomous; structurally, it is managed as an interdisciplinary scientific facility as a part of the Martin-Luther-University Halle-Wittenberg.

The group „Light-for-Hydrogen“ invites applications for the position of a

Scientific Researcher

This full-time position is initially *limited to two years and five months*.

The salary will be commensurate with the qualifications of the successful candidate within the salary scale 13 TV-L.

Requirements:

- completed PhD in Materials Science with a strong link to nanotechnology and photocatalysis
- Hand-on technical experience with nanostructure preparation and characterization. Preferably, this experience encompasses hydrothermal synthesis, photodeposition, X-ray diffraction, Scanning and Transmission electron microscopy, Raman spectroscopy, and photocatalytic characterization via e.g. gas chromatography
- Experience with building or modification of optical set-ups is also a prerequisite
- Experience in science communication through scientific publications (preferably in high impact factor journals), and via oral and poster presentations at (international) conferences
- Capability to work independently and willingness to cooperate within an international team
- Capability/interest to organize local and international collaborations
- Experience in the supervision of bachelor and master students
- Organizational skills with experience in the organization of e.g. research group study tours
- Excellent communication skills (in writing and oral) in English
- Excellent computer skills with experience in e.g. Matlab, Maple, Labview and Origin

Responsibilities:

- Design and implementation of experiments involving:
 - Surface photovoltage spectroscopy
 - Time-resolved spectroscopy
 - (photo)electrochemical impedance spectroscopy
 - Nanostructure synthesis and characterization using several techniques
- Data analysis and preparation of manuscripts
- Supervision of bachelor and master students and student assistants, and close collaboration with PhD students
- Assistance in setting up the labs for the “Light-for-Hydrogen” group
- Assistance in writing proposals

Disabled candidates with equal qualifications will be given preference. Women are strongly encouraged to submit an application.

For any queries please contact Dr. Wouter Maijenburg, E-mail: wouter.maijenburg@chemie.uni-halle.de

Please submit your full application **dossier with registration number 4-5721/16-D** in the subject line **until July 7, 2016** to ZIK SiLi-nano Martin-Luther-Universität Halle-Wittenberg, c/o Frau Sandra Gesemann, Karl-Freiherr-von-Fritsch-Str. 3, 06120 Halle (Saale).

Applications should consist of (i) a motivation letter, (ii) a recent curriculum vitae, (iii) a list of publications, (iv) academic degrees and certificates, and (v) contact information of two individuals who could provide an evaluation of the candidate upon request.

The announcement takes place pending any possible budget restrictions. Application expenses cannot be reimbursed by the Martin Luther University. Electronic application is also possible at wouter.maijenburg@chemie.uni-halle.de