

**Zentrale Universitätsverwaltung
Abteilung 3 - Personal****1553/2018**

Halle (Saale), 17.12.2018

External Position Announcement - Registration number 5-10078/18-H

In the group "Nonlinear Nanophotonics", Institute of Physics and at the Centre of Innovation Competence (ZIK) SiLi-nano of the Martin-Luther-University Halle-Wittenberg nanostructured materials for active integrated photonics based on silicon are investigated. Of special interest are nonlinear optical frequency conversion processes like second harmonic generation, sum and difference frequency generation in silicon/hybrid nanostructures.

To support this research we immediately invite applications for the position of an experienced

Senior Scientific Researcher (Postdoc)

The period of this full-time position is initially limited for three years

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

Candidates for this senior position should have a solid scientific background in the area of nonlinear optics and extensive prior experience with the setup, implementation and running of nonlinear optical experiments. The following expertise is required:

Requirements:

- Masters in Physics or closely related subject
- PhD in Physics or closely related subject
- Extensive experience with nonlinear optical processes in nanostructured samples
- Experience with the planning, setup and running of pulsed-Laser based systems for the investigation of nonlinear optical processes
- Expertise in the area of silicon and/or chalcogenide glass photonics is an advantage
- Further experience with spectral and time-resolved luminescence spectroscopy and / or vacuum deposition techniques is welcome
- Highly independent work attitude, initiative and enthusiasm
- Teaching experience and experience with the preparation of grant applications are a plus

Responsibilities:

- Setup, implementation and operation of experiments investigating nonlinear optical frequency conversion in Si-waveguides and other Si-based as well as hybrid nanostructures
- Planning, performing and evaluating corresponding experiments alone and in collaboration with other partners
- Drafting of publications
- Teaching support (e.g. supervision of tutorials and practical courses, mentoring of students in the laboratory)
- Coordination of laboratory activities, Equipment purchase
- The possibility to obtain further qualification is provided

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

For any queries please contact Prof. Jörg Schilling, E-mail: joerg.schilling@physik.uni-halle.de, Tel.: 0345 55-28653

Please submit your full application dossier with **registration number 5-10078/18-H** in **the subject line until 31/01/2019** to ZIK SiLi-nano® Martin-Luther-Universität Halle-Wittenberg, c/o Prof. Jörg Schilling, 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 (if any), (iv) academic degrees and certificates, and (v) contact information of two individuals (e.g. professors, former supervisors) 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 possible at joerg.schilling@physik.uni-halle.de