

## External job advertisement Reg.-Nr. 5-5635/21-D

Creating knowledge since 1502: the Martin-Luther-University Halle-Wittenberg offers a wide range of academic subjects in the areas of humanities, social sciences, natural sciences and medicine. Formed in 1817 following the merger of the University of Wittenberg (1502) and the Friedrichs University Halle (1694), it is the oldest and largest university in Saxony-Anhalt. Today, it has 340 professors and 20,000 students and its research activities are focussed on the nano and life sciences, society and culture.

The fixed-term, part-time (50 %) position of

### Research Assistant (PhD studentship) (m-f-d)

is available immediately for 3 years at the Medical Physics Group, Institute of Physics, Faculty of Natural Sciences II, Martin-Luther-University Halle-Wittenberg.

The salary is determined according to the public sector pay scale up to E 13 TV-L depending on the assigned tasks and personal qualifications.

#### Project tasks:

- The project is aimed at the development of novel computational tools and experimental methods to solve the inverse problem in quantitative photoacoustic imaging.
- The experimental validation of new tools and methods in phantoms and *in vivo*, using different scanner technologies.
- Dissemination of scientific results via publications and conference participation.
- Contribution to teaching, such as tutorials and the supervision of bachelor and master projects.
- This position offers the opportunity to complete a doctorate / PhD.

#### Qualifications / requirements:

- Completed degree (master, diploma or equivalent) in physics, computational physics, biophysics, medical physics, or a relevant engineering discipline
- Knowledge and experience in all or some of the following areas: programming (e.g. Matlab, Julia, C++), numerical modelling, computational light and acoustic transport models, instrumentation control (Lab-view), optics, ultrasound/acoustics, signal and image processing
- Very good spoken and written English
- High motivation, ability to work independently and within an interdisciplinary team, very good organisational and communication skills.

Women are strongly encouraged to apply. Applicants with disabilities will be preferred if qualifications and suitability are comparable.

Informal enquiries and visits prior to the interview are welcome. For more information, please contact Prof. Jan Laufer, Tel.: 0345 55 25400, E-Mail: [jan.laufer@physik.uni-halle.de](mailto:jan.laufer@physik.uni-halle.de).

Please send your application (incl. *covering letter*, *CV*, and *two references*) by email to Jan Laufer ([jan.laufer@physik.uni-halle.de](mailto:jan.laufer@physik.uni-halle.de)), stating Reg.-Nr. 5-5635/21-D. The deadline for applications is 28.05.2021.



Please note that expenses associated with the application process (e.g. travel) will not be reimbursed. Application documents will only be returned if an envelope with pre-paid postage is provided. This job vacancy is conditional and subject to potential legal and financial restrictions.