

## External Job Advertisement Reg. Nr. 5-5020/25-H -Verlängerung der Bewerbungsfrist-

Modern, interconnected, conscious of tradition: Martin Luther University Halle-Wittenberg (MLU) is the oldest and largest university in the State of Saxony-Anhalt with a history dating back more than 500 years. Today more than 20,000 students are enrolled at MLU.

The Institute of Physics at the Faculty of Natural Sciences II, Institute for Physics, Medical Physics Group, is seeking a full-time.

### Post-doctoral research associate (m-f-d)

for a fixed term of 3 years initially, starting from 1 August 2025, with an option to extend the contract by a further 3 years.

Remuneration will be determined based on job duties and responsibilities and will be aligned with the fulfillment of listed personal requirements, up to pay grade E13 TV-L under the *TV-L (Tarifvertrag für den Öffentlichen Dienst der Länder* – 'German Public Service Pay Agreement for the Federal States').

The medical physics group is working in the field of biomedical photoacoustic imaging and sensor technology. We are developing novel ultrasound sensors and scanners for maximum contrast, image depth and rate, and methods for quantitative functional and molecular photoacoustic imaging.

#### Job Responsibilities:

- Development of methods / technologies for functional and molecular photoacoustic imaging, e.g. quantification of blood oxygen saturation, visualisation of exogenous contrast agents or reporter proteins
- Development of methods and/or technologies from basic research to in vivo applications
- Publication of scientific results and applying for independent research funding
- Teaching in the field of medical physics (4 SWS)
- This position offers the opportunity of completing a habilitation or, alternatively, or obtaining habilitation-equivalent achievements, such as an Emmy-Noether-Fellowship or an ERC Starting Grant. Applications with a short proposal for a research concept in functional/molecular photoacoustic imaging or quantitative photoacoustic imaging are encouraged (maximum 1 A4 page).

#### Requirements:

- Completed doctorate in physics, medical physics, biophysics, or a relevant natural or engineering science, e.g. biomedical engineering.
- Experience in some of the following fields: Optics, opto-electronics, ultrasound/acoustics, device control, programming, signal processing, mathematical simulation
- Creativity, scientific curiosity and interest in a scientific/academic career
- Experience in independent planning, realisation and publication of scientific studies
- Ability to work in a team, self-organisation, good communication skills
- Experience in teaching desirable
- Very good written and spoken English, good written and spoken German

**We offer:**

- the opportunity to support the education of young people through your work and to contribute to gaining new insights and answering important scientific research questions
- public service employment with remuneration according to the *Tarifvertrag der Länder (TV-L)* including an annual bonus payment and a company pension
- a secure job with attractive working conditions (home office, flexible working hours, and variable part-time models)
- 30 days of annual vacation plus additional days off on December 24 and 31
- a family-friendly, diversity-oriented, and intercultural work environment at a certified family-oriented university, including holiday childcare
- a health management framework to promote and maintain good health, as well as a broad university sports program
- the opportunity to participate in diverse social communities (e.g. university sports teams, university choir or university orchestra)

Applications from disabled persons, including those of equal status (as certified by the *Bundesagentur für Arbeit* / Federal Employment Agency), will be given preferential consideration if they are equally suitable and qualified. Women are strongly encouraged to apply. Applications from individuals of all nationalities are explicitly welcome. Applicants with a degree that was not obtained at a German university must submit a Statement of Comparability for Foreign Higher Education Qualifications from the Central Office for Foreign Education (ZAB) (<https://www.kmk.org/zab/central-office-for-foreign-education>) as proof of equivalence upon conclusion of the employment contract. You can find ways to apply for a financial grant for this under: <https://www.anerkennung-in-deutschland.de/html/de/pro/anerkennungszuschuss.php#>.

If you have any questions, please contact Prof. Jan Laufer, Tel.: 0345 5525400, Email: [jan.laufer@physik.uni-halle.de](mailto:jan.laufer@physik.uni-halle.de). Informal enquiries are welcome. Please send your application (Reg. No.: 5-5020/25-H), including cover letter, CV, and two references to Prof. Jan Laufer until 10/07/2025.

This job offer is subject to potential budgetary restrictions.

Application costs will not be reimbursed by Martin Luther University. Application documents will only be returned if a sufficiently stamped envelope is enclosed. Electronic applications are welcome.