

External Job Advertisement Reg. Nr. 5-5020/25-H - Re-Advertisement -

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 is offering a full-time

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

The position is available immediately for a fixed term of 3 years (with an option to extend the contract by a further 3 years).

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 imaging.

Job Responsibilities:

- Development of methods / technologies for biomedical photoacoustic imaging from basic research to *in vivo* applications
- Teaching in physics and medical physics courses of the institute (4 SWS, in German)
- Publication of scientific results, applying for independent research funding

This position offers the opportunity of achieving scientific independence via a habilitation or a fellowship (e.g., Emmy-Noether-Programme, ERC Starting Grant). Applications should include a short research proposal (maximum 1 A4 page).

Requirements:

- Completed university degree and a completed doctorate in physics, medical physics, biophysics, or a relevant natural or engineering science, e.g. biomedical engineering
- Research experience in experimental physics, ideally in fields compatible with the activities of the group
- Proficiency in programming (e.g., Python, Matlab, LabView)
- Knowledge and experience in some of the following fields: Optics, opto-electronics, ultrasound/acoustics, device control, signal processing, mathematical simulation
- Creativity, scientific curiosity and the intention to pursue an academic career
- Experience in independent planning, realisation and communication of scientific studies
- Ability to work in a team, self-organisation, good communication skills
- Experience in teaching and supervision desirable
- Very good written and spoken English and German

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').

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/anererkennungszuschuss.php#>.

If you have any questions, please contact Prof. Jan Laufer, Tel.: 0345 5525400, Email: jan.laufer@physik.uni-halle.de. Informal enquiries and visits are welcome.

Please email your application Reg. Nr. 5-5020/25-H including cover letter, CV, a short research proposal (max. 1 A4 page), and two references by 25.09.2025 to Prof. Jan Laufer.

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.