External Job Advertisement Reg. Nr. 5-12357/25-D

At Martin-Luther-Universität Halle-Wittenberg, Institute of Physics group of Prof. Woltersdorf, a four-year fixed-term position is available as soon as possible, for a

Research Associate (m-f-d)
in the Cluster of Excellence "Center for Chiral Electronics"

to be filled on the basis of pay grade 13 TV-L (75 %).

CCE is an alliance of leading research institutions based in Halle, Berlin and Regensburg, Germany. CCE explores chirality as a key resource for next-generation electronic technologies. The fundamental research focuses on understanding and controlling chiral phenomena at the atomic length and ultrafast time scale, bridging physics, chemistry, and materials science. The vision is to develop the basis for efficient, scalable, and sustainable technologies for advanced information processing. The cluster fosters interdisciplinary collaboration and aims to translate fundamental insights into new directions for electronic devices and quantum technologies. We offer an international environment, excellent infrastructure, and targeted support to help you develop your individual strengths, advance your career, and become part of a dynamic team. www.chiralelectronics.de

Work tasks:

- Investigation of the transport properties of chiral molecules on magnetic surfaces
- Scanning probe analysis of the transport and properties using conducting AFM, Kelvin probe, and optical near field microscopy
- Nanoscale design and pattering of electronic device structures
- Structural of the molecular layers using small angle X ray scattering and IR spectroscopy
- Data analysis and publication of the scientific results
- Active participation in the events of CCE and strengthening of collaborations

The Opportunity to gain scientific and personal qualifications are available.

Requirements:

- Completed university degree in physics or comparable degree
- In-depth knowledge of solid-state physics
- Proficient in the Python programming
- Excellent communication skills
- High self-motivation
- Good English skills, equivalent to B2

We offer:

- Integration in the interdisciplinary and multi-institutional CCE network with excellent scientific infrastructure and mentoring
- Structured doctoral training, international visibility, and participation in joint workshops, conferences, and research stays at our partner sites

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. Dr. Georg Woltersdorf, Tel.: +49 (0)345 55-25300, Email: georg.woltersdorf@physik.uni-halle.de.

Please send your application, referring to Reg. Nr. 5-12357/25-D, with the required documents to Martin-Luther-Universität Halle-Wittenberg, Center for Chiral Electronics, Von-Danckelmann-Platz 3, 06120 Halle (Saale) until 25.12.2025 **Preferably, submit your application in German or English electronically with the online portal https://www.chiralelectronics.de/career/ using the corresponding job ad number (Reg. Nr. 5-12357/25-D).**

This job posting 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.