External Job Advertisement Reg. Nr. 5-12916/25-D

At Martin-Luther-Universität Halle-Wittenberg, Institute of Physics of Prof. Lounis, a 4-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 infra-structure, 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:

- Conduct scientific research activities according to the guidelines of the group leader
- Investigate chiral and non-collinear antiferromagnets on metallic and superconducting surfaces
- Analyze how different forms of chirality influence the electronic and magnetic properties of materials
- Extract and characterize various torques that arise at interfaces with non-collinear magnets
- Publish and present scientific results at conferences and in peer-reviewed journals
- Teach courses at the Institute of Physics amounting to 3 contact hours per week (according to LVVO)
- Student and seminar support
- Active participation in the events of CCE and strengthening of collaborations

The opportunity to gain scientific and personal qualifications is given.

Requirements:

- Completed university degree in physics or comparable degree
- Solid knowledge of electronic structure theory and solid-state physics
- Interest in developing analytical models and in programming
- Experience with computational methods
- High degree of self-motivation, good English skills, equivalent to B2
- Ability to work in a team and strong communication skills

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 Mr. Prof. Dr. Samir, Lounis, Email: samir.lounis@physik.uni-halle.de.

Please send your application, referring to Reg. Nr. 5-12916/25-D, with the required documents to Martin-Luther-Universität Halle-Wittenberg, Center for Chiral Electronics, Von-Danckelmann-Platz 3, 06120 Halle (Saale) until 19.12.2025 **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. 5-12916/25-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.