

External Job Advertisement Reg.-Nr. 5-9100/25-D

The Faculty of Natural Sciences II, Institute of Chemistry, Physical Chemistry, at Martin Luther University Halle-Wittenberg invites applications for the 3-year DFG-funded position of a

Scientific Coworker (f-m-d)

to be filled part-time (65%), starting November 1, 2025.

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 13 under the *TV-L (Tarifvertrag für den Öffentlichen Dienst der Länder* – 'German Public Service Pay Agreement for the Federal States').

The option to prepare a dissertation to obtain a doctoral degree is given. An association with the Research Training Group (RTG) 2670 – Beyond Amphiphilicity – BEAM is possible, which has been funded by the DFG for a second funding phase starting in November 2025. In BEAM research is performed on various aspects of the structure and dynamics of soft matter using intermolecular interactions.

This position is located in the Chair of Physical Chemistry – Complex Self-Organizing Systems and deals with the preparation and understanding of the molecular properties of peptide-based hydrogels.

Job Responsibilities:

- Development of peptide-based hydrogels, investigation of cross-linking reactions (physical/chemical) as a function of buffer and metal salt additions as well as release and uptake profiles of amphiphilic molecules from/into the gels.
- Physicochemical characterization, including swelling studies, mechanical investigations (rheometry) and spectroscopic methods (infrared (IR) and CW and pulsed electron paramagnetic resonance (EPR) spectroscopy)
- Detailed data analyses; development of models to describe structure-function relationships; documentation of the work
- Publication and presentation of the results

There is the possibility of obtaining your own academic qualification by completing a doctoral degree.

Requirements:

- Completed scientific university degree (Diploma or Master's) in chemistry, physics, biochemistry or equivalent university degree
- Initiative to familiarize yourself with a field of research to obtain deep knowledge and ideas for further research in the field
- Good knowledge of the physical chemistry of soft matter, polymers, proteins and organic materials
- Good knowledge in the field of magnetic resonance spectroscopy, ideally EPR spectroscopy
- Very good written and spoken English skills

We offer:

- a secure job and attractive working conditions (home office, flexible working hours, variable part-time models)
- a cosmopolitan, diverse and international working environment that is also certified as family-friendly (including vacation care)
- Many further training opportunities and workshops on scientific topics and professional skills

Applications from severely disabled persons and persons of equal status will be given preferential consideration if they are equally suitable and qualified. Women are strongly encouraged to apply. Applications from people of all nationalities are expressly encouraged. 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 (<https://www.kmk.org/zab/central-office-for-foreign-education>) as proof of equivalence when concluding the employment contract. You can apply for a financial grant for this at: <https://www.anerkennung-in-deutschland.de/html/de/pro/anererkennungszuschuss.php#>.

If you have any questions, please contact Dr. Haleh Hashemi Haeri, e-mail: haleh.hashemi-haeri@chemie.uni-halle.de or Prof. Dr. Dariush Hinderberger, phone: +49 345 55-25230, e-mail: dariush.hinderberger@chemie.uni-halle.de.

Please send your application stating the reg. no. 5-9100/25-D with the usual documents by 23/09/2025 to Martin Luther University Halle-Wittenberg, Prof. Dr. Dariush Hinderberger, E-mail: dariush.hinderberger@chemie.uni-halle.de.

The call for applications is subject to any budgetary restrictions. Application costs will not be reimbursed by the Martin Luther University. Application documents will only be returned if a sufficiently stamped envelope is enclosed. An electronic application is welcome.