External Job Advertisement Reg. Nr. 5-8873/25-D

- 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 the university.

The Martin Luther University Halle-Wittenberg, Faculty of Natural Sciences II, Institute of Chemistry, Group of Biophysical Chemistry, Charles Tanford Protein Centre is seeking a part-time (65 %)

Research Associate (m-f-d)

within the framework of the Graduate School AGRIPOLY II, starting as soon as possible, for a fixed term until 31 December, 2027.

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

Job Responsibilities:

- Research Activities as a graduate student: Design and production of polymer-containing lipid nanoparticles (LNPs), protein preparation and fluorescence labeling, characterization of the properties, cargo loading and protein interaction of LNPs using physicochemical and fluorescence fluctuation spectroscopy methods.
- Working in a team, working with students and with internal collaboration partners at MLU and external collaboration partners, in particular at the University of Jena, including business trips.
- Preparing documentations, publications, presentations, and a dissertation.

The opportunity for personal scientific qualification within the framework of a doctoral thesis will be provided.

Requirements:

- Completed scientific university degree (Master of Science or *Diplom*) in Biochemistry, Chemistry, Physics, or a comparable field with a very good or good grade.
- Experience in several of the following areas:
  - Production of nanoparticles containing lipids, nucleic acids, and polymers.
  - Protein preparation and protein analytical methods (FPLC, gel electrophoresis, Western blot, etc.), fractionation of complex biochemical samples (e.g., subcellular fractionation).
  - Physicochemical characterization of nano- and microscale systems.
  - Biophysical and optical methods, particularly fluorescence fluctuation spectroscopy.
- Experience in quantitative, computer-based evaluation of biophysical studies using software such as Origin or Matlab. Advanced experience in developing mathematical models, evaluation, and visualization with Matlab, as well as programming skills, are desirable.
- Very good knowledge of biophysical methods, especially spectroscopic methods, particularly fluorescence spectroscopy and dynamic light scattering. Knowledge of fluorescence fluctuation spectroscopic methods is desirable.
- Very good mathematical, physical, and biochemical knowledge. Knowledge of polymer chemistry is desirable.

- Very good English language skills, both spoken and written. Understanding of the German language is desirable.
- Experience in writing English presentations and publications is desirable.
- Critical, analytical, and problem-oriented thinking.
- Good communication skills, commitment, and initiative, enthusiasm, a careful and reliable working style, and the ability to work in a team.

We offer:

- interesting and varied fields of activity with creative freedom at the largest employer in the region
- 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)* ('Collective Agreement for the Public Service') including an annual special payment and a company pension
- 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
- comprehensive staff development throughout all career stages with diverse training and qualification opportunities, including educational leave
- 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)
- exciting events such as the *Lange Nacht der Wissenschaften* (Long Night of the Sciences), University Information Day, and the University Winter Ball
- reduced-price meals in the cafeterias of the *Studentenwerk* (Student Services) Halle

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. Kirsten Bacia, email: kirsten.bacia@chemie.uni-halle.de, phone: ++49 345 55-24924.

Please send your application, including Reg. No.: 5-8873/25-D, with the required documents, including an uninterrupted tabular CV and proof of qualifications and studies with detailed grades (transcripts of records), as well as two names of references in a single PDF file (max. 8 MB) by October 5, 2025, exclusively by email to Prof. Dr. Kirsten Bacia, email: kirsten.bacia@chemie.uni-halle.de.

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.