



Vacancy Notice

The Otto von Guericke University Magdeburg (OVGU) is an internationally oriented and regionally networked university with a strong research profile.

The Faculty of Natural Sciences at the Otto von Guericke University Magdeburg (OVGU) offers a position at Institute of Physics as a

W3 Professorship “Physics of bioinspired discrete systems”

starting on October 1st, 2022.

Otto von Guericke University in Magdeburg, the state capital of Saxony–Anhalt, is an internationally oriented and regionally connected university with a strong research profile. The Faculty of Natural Sciences offers interdisciplinary curricula with natural science, engineering and neuroscience components. It covers a broad range of research from basic material science (physics) via living nature (biology) to human behavior (psychology) and is involved in numerous projects and collaborations within the university and worldwide.

The Faculty of Natural Sciences pursues an interdisciplinary research approach, which is characterized by integrating physics problems with experimental and system–theoretical methods of biological and engineering sciences. The focus on modern topics of soft matter physics – in particular concerning hydrodynamic problems, complex fluids, elastic systems and biophysical/biomedical systems – is one of the two main directions at the Institute of Physics. The professorship should actively and substantially contribute to this focus area in the field of soft matter physics, including biophysical systems, and further develop the research profile of the university across the faculties. Moreover, the appointed person must be proficient to teach the compulsory courses in experimental physics, will contribute accordingly and will additionally offer lectures in specific research areas. Furthermore, participation in teachers’ education and in teaching courses for students of other curricula is expected.

We are looking for applicants of proven outstanding international scientific qualification in the field of experimental soft matter systems including biophysical systems. In particular, using microscopic biological and/or artificial model systems, key questions leading to a better understanding of biological systems shall be addressed, modelled, and experimentally evaluated, explicitly considering the role of single particles or other discrete elements. Examples of relevant phenomena are cell adhesion, formation and dynamics of biofilms, collective cell dynamics and mechanics, colloidal active and activatable systems, dynamics in and on membranes as well as mechanical effects and measurements on single cells and cell assemblies.

Furthermore, existing experimental methods at the Institute of Physics for the investigation of soft matter systems should be complemented, in particular by optical and mechanical measurements on particulate systems. Collaboration with existing research groups at the Institute of Physics and the Faculty of Natural Sciences, the engineering faculties and the Max Planck Institute for Dynamics of Complex Technical Systems is explicitly welcome and should be outlined in the application.

We offer support concerning individual career development, comprehensive relocating services to Magdeburg and, if applicable, concerning qualified dual–career opportunities. Our welcome reception, the University Club and other interdisciplinary events foster quick and targeted networking opportunities.

Prerequisites for the appointment are a habilitation degree or comparable achievements according to § 35 (2, 3) of the Higher Education Act for the Federal State of Saxony–Anhalt (*Hochschulgesetz Sachsen–Anhalt*). The ability and willingness to participate in academic administration is required. Experience in and willingness to actively apply for third–party funding is also expected.

You can also find more information here: <https://www.fnw.ovgu.de>

Otto von Guericke University is a signatory of the German Diversity Charter. We welcome your application, regardless of gender, cultural and social background, age or sexual orientation. Applications from severely disabled people or people with an equivalent impairment will be given priority in the case of equal suitability, ability and professional expertise.

Please note the information for storage of personal data: https://www.uni-magdeburg.de/Datenschutz_Bewerber.html

Please send your complete application (cover letter, curriculum vitae, overview of previous research, research and teaching concept for Magdeburg, list of publications, teaching experience, third party funding, copies of relevant certificates and diplomas, teaching evaluations) by **November 15th, 2021** to: