



Within the interdisciplinary research project MOSLA (MOlecular Storage for Long-time Archives), the Faculty of Mathematics and Computer Science - Bioinformatics Group, Prof. Dr. Dominik Heider, offers a position as a

Junior research group leader

The appointment can start as soon as possible and is limited to four years, if no former times of qualification must be considered. Salary and benefits commensurate with a public service position in the state Hesse, Germany (TV-H E 14, 100 %).

Tasks include the lead of a junior research group with two PhD students and cooperation in the research project "MOSLA".

MOSLA is a consortium of 8 groups from the departments of mathematics, physics, chemistry, and biology at the University of Marburg and the University of Giessen that is devoted to employing DNA and novel metal-organic compounds as long time storage devices for information. The overall mission of MOSLA is to prevent the threat of a supposedly "Digital Dark Age", i.e., a potential loss of digital data in the far future. The consortium will generate new algorithms for quaternary and higher codes including repair functions to use DNA in bacterial cells and spores to store information for several thousands of years. The consortium will also employ new metal-organic compounds for long time storage via differential light read out. Further, feasible and viable methods are to be developed for encoding and decoding of data of the novel long-term archives to warrant data security and data access for the far-future human generations.

The position is limited to a time period deemed adequate for being able to take on a professorship (habilitation or equivalent). As part of the assigned duties, there will be ample opportunity to conduct the independent scientific research necessary for own scientific qualification. The limitation complies to § 2, 1 WissZeitVG.

The successful candidate must hold a MSc, Diploma, or a related qualification in (Bio)Informatics, Computer Science, or related disciplines and a PhD in the field. We are looking for highly motivated candidates with very good bioinformatics/biostatistics knowledge and great interest in working on molecular storage systems. Basic knowledge in the life sciences, preferably Molecular Biology, would be advantageous.

We actively support the professional development of junior researchers, e.g., by the offers of Marburg Research Academy (MARA), the International Office, and the Human Resources Development Office.

We support women and strongly encourage them to apply. In areas where women are under-represented, female applicants will be preferred in case of equal qualifications. Applicants with children are welcome - Philipps-University is certified as a family-friendly university. A reduction of working time is possible. Applicants with a disability as described in SGB IX (§ 2 Abs. 2, 3) will be preferred in case of equal qualifications. Application and interview costs cannot be refunded.

Application documents are to be submitted as one pdf-file to the Department of Mathematics and Computer Science, Prof. Dr. Dominik Heider (heiderd@mathematik.uni-marburg.de), until 29.03.2019, quoting the reference number fb12-0005-MOSLA-wmz-2019.