

Philipps



Universität
Marburg

At the **Department of Chemistry, Biochemistry**, in the group “Molecular and Cellular Biochemistry of Microorganisms” of Prof. Dr. Peter Graumann, conditionally upon the committed funds, we are seeking a

Research Assistant (PhD student)

as a third party funded **part-time position (50 % of regular working hours)** starting on **1st February 2019** for a **period of 3 years**, if no former times of qualification must be considered.

Salary and benefits are according to a public service position in Germany (**TV-H E 13, 50 %**).

The project deals with the investigation of protein secretion in biotechnologically relevant *Bacillus* species, in close collaboration with the company BRAIN AG, Zwingenberg, where also some part of the project will be undertaken. Mechanisms of protein secretion across the cell membrane and cell wall will be analysed by molecular biological techniques and super resolution fluorescence microscopy, and will be engineered to improve productivity. The framework Product-Enhancement Initiative Bioökonomy (UfIB) of the German Ministry for Science and Research (BMBF) offers industry-workshops and a coordinated PhD program.

The position is limited to a period of 3 years, which is the designated period of qualification and will offer the possibility of independent scientific research and qualification in the context of the assigned research project.

The position requires a M.Sc. or similar degree in Biology, Biophysics or Biochemistry focused on Microbiology or Biochemistry. The applicant should be trained in sterile work with bacteria. We are seeking a PhD student who is interested in studying the dynamics of protein secretion at the molecular level, using super resolution fluorescence microscopy (STED and SIM), as well as single molecule microscopy and automated particle tracking (SMT), and modern genetic and biochemical tools to improve production yields in batch and continuous culture. Knowledge on physiology and genetics of bacteria is mandatory. Helpful are previous training in biochemical techniques such as affinity chromatography, and/or computer guided data analysis (e.g. MATLAB). The Graumann laboratory is an international working group, operating with SYNMIKRO and the faculty of Chemistry; we prefer team-workers rather than lone fighters.

The Philipps University actively supports the professional development of young researchers through the services of the Marburg Research Academy (MARA), the International Office and the departments for university didactics and employee development.

Informal project enquiries should be sent to Prof Dr. Peter Graumann (peter.graumann@synmikro.uni-marburg.de).

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. Sharing a full-time position (§ 8 Abs. 2 S. 1 HGLG) as well as 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 can not be refunded.

Please send your application including, letter of motivation detailing research interests and expertise, curriculum vitae, copies of relevant certificates and contact details of two academic references mentioning registration number fb15-0044-wmz-2018 electronically to jobs@synmikro.uni-marburg.de as a single pdf-file, deadline 01st January 2019.