

# Stellenausschreibung

Reg.-Nr. 297/2017  
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FRIEDRICH-SCHILLER-  
UNIVERSITÄT  
JENA

As of 1<sup>st</sup> April 2018 the chair of  
Synthetic Biotechnology at the Faculty of Biology and Pharmacy  
of Friedrich-Schiller-University Jena  
**has an open position for a**  
Scientific Employee (Wissenschaftliche/r Mitarbeiter/in).

### Required qualifications:

- Masters degree in Biology, Biotechnology, Biochemistry, Bioengineering or comparable with excellent grades,
- Mandatory knowledge and practical education in microbiology, desired knowledge in molecular biology, microbial ecology, and experimental design,
- Scientific curiosity, motivation, creativity, and passion,
- Team spirit, independent and cooperative work ethic,
- Very good communication skills and English.

### Central tasks:

- Independent and strategic planning, managing and conducting of a research project (see below),
- Preparation, communication and discussion of written and oral research reports within and outside of the research group,
- Participation in project development and proposal preparation,
- Preparation of a PhD thesis.

Project outline: Extracellular microbial electron transfer in microbial communities is an important trait for redox homeostasis, energy exchange and microbial communication. Phenazines from *Pseudomonas aeruginosa* can be utilized by diverse microorganisms to discharge surplus reducing equivalents to external electron acceptors. This feature can be exploited in bioelectrochemical systems, where biotechnologically relevant redox-transformations can be coupled to an electrochemical system via phenazines as redox-shuttles. The focus of this PhD project will be on the optimization of phenazine based extracellular electron transfer in an engineered strain of *Pseudomonas putida* to allow for anaerobic biocatalysis in this obligate aerobic bacterium.

The PhD position (at 50%) is initially for a 3 year appointment; an extension is possible. The payscale follows the wage agreements for public employees of federal German states (TV-L -E13). Severely disabled applicants with equal qualification and aptitude are given preferential consideration.

Applications are exclusively accepted via the HKI-Online Application Portal:

<https://jobs.hki-jena.de/>

Please familiarize yourself with application process as described on this website and send your complete application documents until latest **October 22<sup>nd</sup> 2017**.