



At the Ernst-Moritz-Arndt University of Greifswald and within the framework of the Research Training Group (RTG) 1870 "Bacterial Respiratory Infections", in total **six positions** as

PhD student (m/f)

(salary according to TV-L E13/65%).

are to be filled as early as **from 1 November 2017**. The positions are initially limited to 31 October 2018 and can be extended depending on prolongation of the third-party funded project.

Since May 2014, the RTG1870 "Bacterial Respiratory Infections – Common and specific mechanisms of pathogen adaptation and immune defence" (RTG BacRes) is funded by the German Research Foundation (Deutsche Forschungsgemeinschaft, DFG) under supervision of Prof. Sven Hammerschmidt at the Department for Genetics of Microorganisms, Interfaculty Institute for Genetics and Functional Genomics. The RTG BacRes offers an innovative, structured training and research program in a both stimulating and interdisciplinary field of infection biology with state-of-the-art technologies and facilities. In addition, the RTG BacRes provides an international research environment due to its close collaboration with the Universities of Groningen (UMCG) and Nijmegen (RUNMC) in the Netherlands.

Aim of the RTG1870 is to study the regulation and expression of virulence factors of the bacterial respiratory pathogens *Streptococcus pneumoniae* and *Staphylococcus aureus*, to explore OMICs signatures of bacteria and host cells during colonization and (co-)infection, determine structure–function relationships of surface-exposed lipoproteins and transporters, and study mechanisms of immune defence. Specific added value will be derived from comparing the three bacterial species in the same experimental systems, to identify shared or unique molecular mechanisms employed to meet the challenges of proliferating in a respiratory environment.

Research Projects:

The RTG BacRes offers the possibility to obtain a PhD in the following projects: A1, A3, A5, B1, B2, B3, C3, and C4. Please visit the RTG's website for detailed information on the research activities, qualification programme, and project partners: RTG1870.uni-greifswald.de.

Your Background:

- Master of Science (or equivalent) in biology, biochemistry or related subjects
- high interest in research on bacterial pathogens
- project-relevant knowledge about biochemistry, cell biology, microbiology, proteomics, and/or bioinformatics
- excellent verbal and written communication skills

Application:

The Ernst-Moritz-Arndt University wishes to increase the proportion of female academic personnel. Women are therefore explicitly encouraged to apply. Handicapped persons with equivalent qualification will be given preference.

Please send your application materials no later than **15 September 2017** (including your two priority projects, CV, letter of motivation, letters of recommendation, official transcripts, copies of all degrees and courses, list of research and laboratory experience, and, if applicable, list of publications) as single PDF (max. 5 MB) by email to Prof. Dr. Sven Hammerschmidt and specify the reference number **17/Wi14** in the email subject line and in your cover letter.

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