



Julius-Maximilians-

UNIVERSITÄT  
WÜRZBURG

JULIUS-MAXIMILIANS-UNIVERSITÄT  
WÜRZBURG, GERMANY

Institute for Molecular Infection Biology (IMIB)

## PhD Student, Single-cell RNA-seq and bacterial pathogenesis

The Vogel lab invites applications for a doctoral student position to study bacterial pathogenesis by several RNA-seq based approaches. The ultimate goal of this project is to achieve a high-resolution of gene expression on the single-cell level. For research themes and more information on methodology, see some of our recent publications (Westermann AJ et al. 2016 *Dual RNA-seq unveils noncoding RNA functions in host-pathogen interactions*. **Nature** 529:496-501; Smirnov A et al. 2016 *Grad-seq guides the discovery of ProQ as a major small RNA binding protein*. **PNAS** 113:11591-6; Saliba AE et al. 2017 *Single-cell RNA-seq ties macrophage polarization to growth rate of intracellular Salmonella*. **Nature Microbiology** 2:16206).

The successful applicant will work in the dynamic environment of the Vogel lab at the IMIB and the Helmholtz Institute for RNA-based Infection Research (HIRI). Applicants are required to hold or to obtain a first-class or upper second class Master degree in biology, biochemistry, microbiology or a related relevant biological subject. They should have excellent theoretical knowledge of molecular biology and good laboratory skills. The position is available for three years (from March 1st, 2018 onwards) with the possibility of extension for up to four years. Salary will be based on the pay scale for the public sector in Germany (TV-L) and comply with qualification. Part time employment is also possible.

We welcome applications from suitably qualified people from all sections of the community regardless of race, gender or disability. The University aims to increase the proportion of female employees, therefore applications from qualified women are particularly welcome. Preference will be given to people with disabilities in the case of otherwise equal aptitude.

For informal inquiries, please contact Prof. Jörg Vogel (joerg.vogel@uni-wuerzburg.de). Applications should include a short cover letter, CV and publication list, copies of relevant documents and contact information for academic references as a single PDF file by **February 15, 2018** via email to **monika.meece@uni-wuerzburg.de**.