



The Nanoscale Bacteriology Lab in the Rudolf Virchow Center for Center for Integrative and Translational Bioimaging at the University of Würzburg, Germany, invites applications for



2 PhD positions at the interface of microbiology, advanced microscopy and AI (f/m/d)

At Julius-Maximilians-Universität Würzburg, more than 30,000 people from over 100 countries come together to study, research, teach and work. As a central institution of the University, the Rudolf Virchow Center is a modern research center with more than 100 international scientists investigating the molecular causes of health and disease. It has been established as a unique institution for translational bioimaging combining all existing imaging core structures and microscopy facilities.

All positions are embedded in the **research group of Dr Christoph Spahn**. Our work focusses on **understanding the subcellular organization of bacteria and their interaction with antibiotics**. We combine super-resolution microscopy ([Spahn *et al.*, 2018](#)), drug treatments ([Spahn *et al.*, 2023](#)) and artificial intelligence ([Spahn *et al.*, 2022](#)) to generate beautiful images that help us to understand antibiotic action. As we aim for an interdisciplinary approach, we complement our microscopy with basic microbiological and biochemical methods to obtain a more holistic picture about bacterial organization.

The advertised positions are funded by the Bavarian Distinguished Professorship Programme (Spitzenprofessurenprogramm, High Tech Agenda Bayern) granted to Prof Christophe Zimmer.

Qualification profile

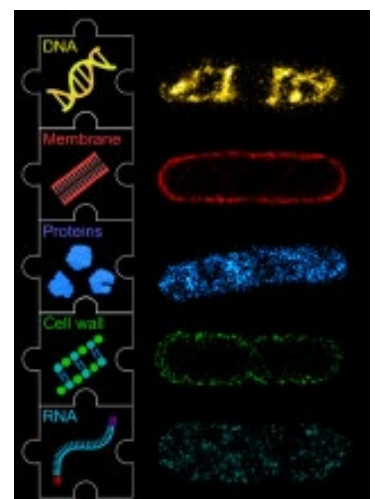
As a PhD applicant **you have completed a university degree** (Diploma, MSc, or equivalent) in life sciences or related fields.

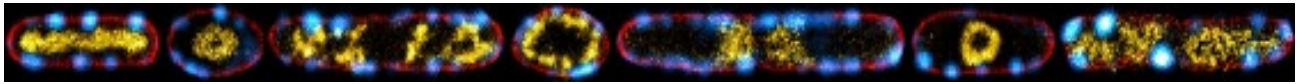
Essential qualifications

- Enthusiasm for science/basic research
- A strong background in the field of life sciences
- Experience in microbiology, molecular biology or microscopy
- Excellent team spirit
- A good command of English as you will be working in an international team.

Optional qualifications

- Experience in super-resolution microscopy
- Experience in programming or advanced image analysis
- Experience in biochemistry





The University of Würzburg is an equal opportunity employer. As such, we explicitly encourage applications from qualified women. Severely handicapped applicants will be given preferential consideration when equally qualified.

What we offer

The Rudolf Virchow Center is a highly competitive international research institute with an outstanding infrastructure. We have in-house access to state-of-the-art instrumentation and to an extensive range of modern biophysical and cell biological equipment. We are integrated into a stimulating cross-disciplinary environment that includes our partners at the Biocenter, the physics department, the Max Planck Research Group in Systems Immunology, the Institute for Molecular Infection Biology (IMIB), Helmholtz Institute for RNA-based Infection Research (HIRI) and the University Hospital in Würzburg.

Würzburg is located in the beautiful, wine-growing area of Franconia, in proximity of Frankfurt (1 hour by train) and Munich (2 hours).

The position will be initially funded for one year and extended upon positive evaluation. The salary is commensurate with training and experience according to Collective Agreement for the Public Service of German Federal States TV-L (65%).

The successful doctoral applicants will enroll in the [Graduate School for Life Sciences \(GSLs\) in Würzburg](#) and benefit from its extensive transferable skills program, travel funds and administrative support.

You will have access to both national and public-service pension schemes (VBL), health care, and are entitled to 30 days of holiday in addition to 13 annual public holidays in Bavaria. Our Welcome Center supports international candidates in finding accommodation as well as in administrative matters - and the University of Würzburg offers support for researchers with children, including flexible working hours and childcare.

Interested?

Applications including a cover letter, a detailed CV (2 pages max), a short summary of past research projects with publications (3 pages max), copies of certificates, and the contact information of two referees, should be sent via email as a single pdf file (not exceeding 10 MB).

Please send your application to: personal@virchow.uni-wuerzburg.de.

Application deadline: 31st of Mai 2024.

Alternatively, application documents may be sent as hard copies to:

Rudolf-Virchow-Zentrum
Universität Würzburg
z.H. Sabine Sattler
Josef-Schneider-Str. 2/ Haus D15
97080 Würzburg
Germany

Note: Please send only copies. For financial reasons, application documents cannot be returned. They will be destroyed shortly after completion of the selection process. If you enclose a postage-paid envelope, the application documents will be returned to you three months after completion of the selection process.