

The Chair of High-Resolution Optical Microscopy  
in the Rudolf Virchow Center for Integrative and Translational Bioimaging  
at the University of Würzburg, Germany,

invites applications for

**3 PhD positions (f/m/d)**

in the areas of advanced imaging and artificial intelligence for biomedical research.

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 Prof Christophe Zimmer. His interdisciplinary laboratory will combine advanced imaging and artificial intelligence to overcome important technical challenges to life science research and directly address key biomedical questions. The positions are funded in part by the Rudolf Virchow Center of Julius Maximilian University Würzburg and by the Bavarian Distinguished Professorship Programme (Spitzenprofessurenprogramm, High Tech Agenda Bayern).

**Qualification profile**

As a PhD applicant you have completed a university degree (Diploma, MSc, or equivalent) in:

- life sciences or related fields (1 PhD position)
- in computer science, AI, physics or related fields (2 PhD positions)

Essential:

- Strong background in one of the above-mentioned or related fields
- Strong motivation, excellent work ethic and dedication to interdisciplinary research
- Excellent team spirit
- A good command of English is mandatory as you will be working in an international team.

Optional:

- Prior experience in deep learning, single molecule microscopy, high throughput imaging or drug discovery is not essential, but is a significant plus
- For candidates with a background in biology, computational expertise is a plus
- For candidates with a computational or physics background, expertise in biology is a plus

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, 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).

We offer a three-year position starting on or after 1<sup>st</sup> of January 2024, which 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.

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) to **christophe.zimmer@uni-wuerzburg.de**.

### **Deadline: 1<sup>st</sup> of October 2023**

Applications received before **1<sup>st</sup> of October 2023** will be examined together, and on a rolling basis thereafter.

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



Rudolf-Virchow-Zentrum  
Universität Würzburg  
z.H. Prof. Christophe Zimmer  
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.