

The Friedrich Schiller University Jena is a dynamic and innovation-driven university centrally located in Germany. With a broad range of disciplines, it shapes the future through excellent research and teaching. Its scientific excellence is reflected in the profile areas **Light – Life – Liberty**, which provide pioneering insights and sustainable solutions for the society of tomorrow. Through close collaborations with leading research institutions, innovative companies, and renowned cultural organizations, it advances interdisciplinary developments. With around 17,000 students and approximately 10,000 employees, it defines Jena as a vibrant, internationally connected city of science and innovation.

The [Cluster of Excellence “Balance of the Microverse”](#) studies the fundamental principles underlying microbial community interactions and functions in diverse habitats, ranging from oceans and groundwater to plants and human hosts. We integrate insights across ecological and medical fields to enhance our understanding of microbial balance from the molecular to the ecosystem level. We develop tools and detection technologies to shape microbiome dynamics for environmental and human health benefits. The affiliated early career program of the Jena School for Microbial Communication offers an ambitious, structured and interdisciplinary post-graduate training based on top-level fundamental research.

The research group of Prof. Christian Eggeling at the Cluster of Excellence “Balance of the Microverse” invites applications for a

Postdoctoral Researcher in advancing MINFLUX microscopy for microbial research

commencing in July 2026 or upon agreement. We offer a full-time position (100%, 40 hours per week) at the University of Jena, offered as a fixed-term position for 2 years.

Fluorescence MINFLUX microscopy is a novel super-resolution technique whose full potential remains largely unexplored. The Eggeling lab has successfully established this technology and demonstrated its capabilities in cell membrane research. Building on this foundation, we now aim to evaluate and expand the application of MINFLUX microscopy within the research framework of the Cluster of Excellence “Balance of the Microverse”. In collaboration with multiple partners across the cluster, you as a postdoctoral researcher will optimize MINFLUX microscopy for biomembrane research and apply this cutting-edge approach to representative projects to uncover previously inaccessible biological details.

Your responsibilities:

- Perform laboratory experiments in the field of cell biology, membrane biophysics, advanced fluorescence microscopy, infection, microbiology and immunology, and work independently towards your postdoctoral research project
- Analyse project results, generate figures for publications, and write scientific manuscripts for publication
- Present your results at local, national, and international meetings and conferences
- Work closely together with other experimental and computational researchers in the research group and within the Cluster
- Assist with training and supervising other researchers (e.g. doctoral candidates, MSc students)
- Contribute to the friendly, welcoming, and collaborative environment in our team

Your profile:

- A PhD in biomedical sciences and master and bachelor studies background in biotechnology and microbiology or closely related disciplines.

- Laboratory experience with fluorescence microscopy, cell and model biomembranes, cell culturing, fluorescence labelling, immune cells, protein expression and purification, data analysis and statistics and molecular biology is desired.
- We expect long-year experience in advanced and super-resolution fluorescence microscopy, biomembrane research, and immunology and microbiology.
- A high level of curiosity, self-motivation, enthusiasm and attention to detail
- A cooperative personality actively seeking to contribute to our interdisciplinary and inclusive Microverse community
- Very good written and spoken English communication skills

Are you hesitating because you don't meet one or some of our requirements? Please do not hesitate to apply and give us a chance to get to know you.

We offer:

- A highly communicative atmosphere within an energetic and interdisciplinary scientific network
- The Jena School for Microbial Communication offers a structured and interdisciplinary training program based on top-level fundamental research and provides comprehensive mentoring programs and soft skills courses for doctoral and postdoctoral researchers
- Jena – City of Science, a young and lively city with a vibrant local cultural agenda
- A dedicated management team, providing support and information on non-scientific subjects, such as onboarding and family life, and organizing individualized career development programs, and events on topics like diversity and collaboration
- Remuneration based on the provisions of the Collective Agreement for the Public Sector of the Federal States (TV-L) at salary scale E13 — depending on the candidate's personal qualifications—, including a special annual payment in accordance with the collective agreement
- 30 days of vacation per calendar year plus two days off on December 24 and 31

The full-time 2-year postdoctoral researcher position (TV-L E13, 100%) is funded through the Excellence Strategy of the German federal and state governments. The employment contract will be with the University of Jena. Part-time employment can be discussed.

To promote gender equality in science, applications by women are particularly welcome. Candidates with severe disabilities will be given preference in the case of equal qualifications and suitability.

Are you eager to join us? Then apply by **25.05.2026** using our online portal.

[Online application](#)



For further information on your application and the collection of personal data, please refer to our [Privacy Statement for Applicants](#)