



The Cluster of Excellence "*Balance of the Microverse*" at the Friedrich Schiller University Jena, Germany, combines expertise in life, material, optical and computational sciences to elevate microbiome studies from descriptive to hypothesis-driven and functional analyses. Our core mission is to elucidate fundamental principles of the interactions and functions in microbial communities in diverse habitats ranging from oceans and groundwater to plant and human hosts. We aim to identify the shared characteristics of disturbed or polluted ecosystems as well as infectious diseases on the microbiome level, and develop strategies for their remediation by targeted interventions. Our full spectrum of expertise in the physical and life sciences will be leveraged to address these important issues in natural habitats as well as synthetic arenas in a collaborative manner. The affiliated early career program of the *Jena School for Microbial Communication* (JSMC) offers an ambitious, structured and interdisciplinary post-graduate training based on top-level fundamental research.

The research group of Prof. Dr. Ilse Jacobsen at the Cluster of Excellence *Balance of the Microverse* invites applications for a

Postdoctoral Position (m/f/d)

to conduct research on the project

Consequences of bacterial-fungal interactions for intestinal colonization and development of the immune system

Your responsibilities:

- Conduct research on the impact of microbial colonization on the immune system of mice, including writing of animal license application, practical work with mice in a gnotobiotic facility, and immunological analyses.
- Contribute to the development of project direction, as the project evolves.
- Produce high-quality written reports and draft papers.
- Present your results at local meetings and national and international conferences.
- Assist with training other researchers, including Masters' and undergraduate project students, where required.
- Assist with the teaching activities of the group where required.
- Contribute to maintaining the friendly, welcoming and collaborative environment within the group.

Your profile

- A PhD in Microbiology, Immunology, or related disciplines. Candidates in the final stages of obtaining their doctorate are also eligible to apply
- Essential methodological skills: experience in working with laboratory mice
- Desirable methodological skills: flow cytometry, immunological techniques (e.g. functional characterization of T cells), microbiology techniques
- Highly motivated individuals with an interest in joining one of the interdisciplinary research areas of the Microverse Cluster
- The ability to work creatively and independently towards developing your own research project



- An integrative and cooperative personality with enthusiasm for actively participating in the dynamic Microverse community
- English communication skills, both written and spoken

We offer:

- A highly communicative atmosphere within an energetic scientific network
- A comprehensive mentoring program and soft skill courses for early career researchers
- *Jena – City of Science*: a young and lively town with a vibrant local cultural agenda

The two year full-time postdoctoral researcher position (100% TV-L E13) will be funded through the Excellence Strategy of the German federal and state governments. The Friedrich Schiller University Jena is an equal opportunity employer and part-time contracts can be discussed.

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

Applications in English should comprise a cover letter, a detailed curriculum vitae and copies of academic certificates. Please familiarize yourself with the currently available doctoral projects (www.microverse-cluster.de) and the application process as described in the Online Application Portal. Please submit your application via the JSMC Online Application Portal, under the vacancy ID **07/2021** by **3. August 2021**:

<https://apply.jsmc.uni-jena.de/>