

# POSTDOC POSITION IN FUNGAL GENETICS, PATHOGENESIS, AND ECOLOGY

The group of **Dr. Amelia Barber** located at the **Friedrich Schiller University Jena** invites applications for a postdoctoral position. The group studies **human fungal pathogens**, with a focus on understanding their **genome biology, ecology**, and **antifungal resistance**.

The project will investigate how the environmental lifestyle of fungal pathogens shapes their virulence in humans. Most human pathogenic fungi have their primary habitat in the environment, but their ecology and its relevance to human disease is largely uncharacterized. This project will systematically identify fungal factors and pathways important for environmental interactions that moonlight as virulence strategies during infection. The methodology used will include high throughput through screening of human fungal pathogens such as *Aspergillus fumigatus* with other environmental bacteria, fungi, and protists, molecular genetics, and NGS data analysis.

## Requirements:

- PhD in the biological sciences, bioinformatics, or related disciplines. Applicants in the final stages of obtaining their degree are encouraged to apply.
- Laboratory experience working with bacteria or fungi or molecular biology
- Curiosity, motivation, enthusiasm, and attention to detail

## Nice to have, but not required:

- Familiarity with analysis of NGS data and R or Python for statistics and data analysis. However, an eagerness and commitment to learning is more important than previous experience.
- Experience with microbial co-culture setups or designing synthetic microbial communities.

We offer a collaborative, interdisciplinary, and highly international research environment. The group is part of the Excellence Cluster Balance of the Microverse and is tightly connected to other groups at the Friedrich Schiller University and local Leibniz and Max Planck Institutes. Jena is a picturesque university city with a high quality of life surrounded by the nearby Thuringian Forest. It is centrally located for trips to major cities such as Leipzig, Berlin, Dresden, Frankfurt, and Munich.

**Starting date:** February 2025 or upon agreement. The position is initially offered for a period of 2 years with the possibility of extension. Salary is paid in accordance with German TV-L (salary agreement for public service employees).

**How to apply:** please send your application as a single PDF to [amelia.barber@uni-jena.de](mailto:amelia.barber@uni-jena.de). This file should include a motivation letter (1 page max), your CV, 1 or 2 key preprints or publications, and contact details for 2-3 references. If none, or the majority, of your doctoral research is publicly available, please submit a 1-page summary of your thesis in place of the preprints or publications.

Applications will be reviewed on a rolling basis. For more information about the group, visit <https://barber-lab.com>.