

The **Leibniz Institute for Natural Product Research and Infection Biology – Hans Knöll Institute** (Leibniz-HKI, www.leibniz-hki.de) investigates the pathobiology of human-pathogenic fungi and identifies targets for the development of novel natural product-based antibiotics. The research group of **Applied Systems Biology** invites talented and highly gifted candidates to apply as

Doctoral Researcher (f/div/m) in Computational Biology

for three years initially.

Research Areas: Mathematical Modeling, State-based and Agent-based Modeling, Game Theory, etc.

In the research group **Applied Systems Biology** a position for a doctoral researcher becomes available. The position is associated with aspects of the **Image-based Systems Biology** approach. This modern computational approach comprises the automated analysis of microscopy and/or spectroscopy data based on state-of-the-art methods from machine learning as well as the computer simulation of mathematical models using advanced modeling approaches. We are seeking highly motivated candidates that are interested to work on mathematical modeling and computer simulations in experiment-driven interdisciplinary studies.

Candidate´s profile:

- Master degree (or equivalent) in physics, computer science, bioinformatics or a related discipline
- Strong interest in biological systems and an educational background in biology is preferred
- Experience in mathematical modeling and computer simulations is beneficial
- Very good programming skills in Python and/or C/C++
- Ability to perform team-oriented as well as independent work
- Good communication skills in English are a must

We offer:

The successful candidate will be hosted in the research group **Applied Systems Biology** of **Prof. Dr. Marc Thilo Figge**. The Leibniz-HKI is embedded in the outstanding scientific environment of the Beutenberg Campus providing state-of-the-art research facilities and a highly integrative network of life science groups. We offer a multifaceted scientific project with excellent technical facilities, a place in a dynamic, committed team, as well as strong scientific collaborations.

Job Advertisement

Leibniz-HKI-36/2022



Leibniz Institute
for Natural Product Research
and Infection Biology
Hans Knöll Institute

The PhD candidate will participate in the structured program of the **International Leibniz Research School** and become an associated member of the **Jena School of Microbial Communication**.

Salary is paid according to German TV-L (salary agreement for public service employees). As an equal opportunity employer, the Leibniz-HKI is committed to increasing the percentage of female scientists and therefore especially encourages them to apply.

Further information:

Prof. Dr. Marc Thilo Figge | +49 3641 532 1416 | career@leibniz-hki.de

Applications:

Complete applications in English should include a cover letter, a CV containing a complete list of publications, a brief statement of research experiences, a certificate of study/transcript of records, the addresses of two possible referees, and should be submitted via the Leibniz-HKI **online application system**. The deadline for the advertisement is **September 30, 2022**, but applications will be reviewed on a rolling basis.