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## Job Advertisement HKI-12/2021

The **Leibniz Institute for Natural Product Research and Infection Biology – Hans Knöll Institute** (Leibniz-HKI, [www.leibniz-hki.de](http://www.leibniz-hki.de)) investigates human-pathogenic germs and identifies targets for the development of medical drugs. Talented and highly qualified candidates are invited to apply for a position in the research group **Applied Systems Biology** of **Prof. Dr. Marc Thilo Figge** as

# Doctoral Researcher (f/div/m) in Image-based Systems Biology

for three years initially with the intention to obtain the doctoral degree.

**Research Areas:** Machine Learning, Analysis of Microscopy/Spectroscopy Data, Mathematical Modeling

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, such as state-based or agent-based techniques. We are seeking highly motivated candidates that are interested to work on the side of either machine learning and data analysis or mathematical modeling and computer simulations in experiment-driven interdisciplinary studies.

### Candidate's profile:

- Master's 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 machine learning and/or mathematical modeling and/or computer simulations is beneficial
- Very good programming skills in Python and/or C/C++ and OpenCV
- 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. The PhD candidates 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](mailto:career@leibniz-hki.de)

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**Applications:**

Complete applications in English, including a cover letter with a brief statement of research experiences, a CV with a complete list of publications, and the addresses of two possible referees, should be submitted via the Leibniz-HKI **online application system**. The deadline for the advertisement is **May 15, 2021**, but applications will be reviewed on a rolling basis.

