



PhD Position in Metagenomics

The Systems Biology & Bioinformatics (SBI) group of the Leibniz Institute for Natural Product Research and Infection Biology (HKI, Jena, Germany), is seeking a PhD student in the domain of metagenomics. SBI is a member of several national and international collaborative efforts to understand microbial balance from the molecular to the ecosystem level and develop detection and manipulation technologies to create beneficial impact. The successful candidate is expected to analyze and integrate microbiome and mycobiome sequencing data with clinical meta-data obtained from large patient cohorts including, among others, cancer, metabolic diseases and critically ill patients. She/he is expected to interact closely with wet-lab scientists and clinicians for revealing host meta-omics signatures that can be subsequently used to develop novel microbiome-based treatments for human diseases.

Your profile: A strong interest in conducting collaborative research on the topic outlined above is paramount. Candidates are expected to be interested in working at the boundaries of several research domains.

- MSc degree in Systems Biology, Computational Biology, Bioinformatics, Biophysics, Computer Science or a related discipline.
- Knowledge and experience in the analysis of biological high-throughput data.
- Knowledge in statistical methods in the context of biological systems.
- Experience with programming (Python, Perl, C++, R).
- Well-developed collaborative skills.

We offer: The successful candidates will be hosted at the SBI group of Leibniz Institute for Natural Product Research and Infection Biology, Hans Knöll Institute. SBI is currently coordinating a Marie Curie ITN Horizon 2020 Research and Innovation Program and is an active participant of the Excellence Strategy of the Federal Government "Balance of the Microverse" and CRC/Transregio 124 "Pathogenic fungi and their human host: Networks of interaction" funded by the Deutsche Forschungsgemeinschaft. We offer an international and multi-disciplinary environment with a strong expertise in the proposed research field. Currently the group consists of approximately 17 members at different levels of seniority; Post-doctoral scientists, PhD students and scientific co-workers. More information for the research output of the group in the field of systems biology can be found here: <http://www.leibniz-hki.de/en/systembiologie-und-bioinformatik.html>

The PhD position is for 3 years.

Applications

Complete applications in English should include a CV, certificates, transcripts, a brief statement of research experiences and interests, brief summary of Master's thesis and the contact details of two possible referees, and should be submitted as a single pdf-file. Please send your application to Assoc. Prof. Gianni Panagiotou, Head of Systems Biology & Bioinformatics Gianni.panagiotou@hki-jena.de

We offer

- Convivial working atmosphere in an interdisciplinary and international research environment.

Life in Jena

- Jena is a city with high quality of life, central for trips to major cities (Weimar, Leipzig, Dresden, Berlin, Munich) and surrounded by beautiful nature, perfect for hiking, biking and winter sports
- Jena was awarded the title "City of Science" from the *Stifterverband für die Deutsche Wissenschaft* in 2008.
- The city is also a hub for notable life science companies, enabling the transfer from academia to industry.