



Research Assistant (Bachelor's Degree – WHB) (f/m/x) – Predictability in Evolution

CRC 1310 | Institute for Biological Physics



Foto: Jörn Henn

We are one of the largest and oldest universities in Europe and one of the most important employers in our region. Our broad range of subjects, the dynamic development of our main research areas and our central location in Cologne make us attractive for students and researchers from around the world. We offer a wide range of career opportunities in science, technology, and administration.

The Collaborative Research Center 'Predictability in Evolution' focuses on the predictability of evolutionary processes in diverse systems such as microbial populations, viruses, cancer and the immune system (see also <https://crc1310.uni-koeln.de/>). Within the CRC, we are specifically interested in the development of high-throughput evolutionary experiments and advanced modelling frameworks for prokaryotic metabolic pathways. More specifically, we aim to model and evolve the synthetic minimal organism JCVI-syn3B, which serves as a tool to study fundamental principles of cellular life.

YOUR TASKS

- » Researching the metabolism of the synthetic minimal organism JCVI-syn3B
- » Analyzing and documenting the chemicals required for a defined cell culture medium
- » Preparation and optimization of a defined cell culture medium
- » Cultivation and determination of the growth rate of JCVI-syn3B in defined cell culture media

YOUR PROFILE

- » You are currently enrolled in Biology, Biochemistry or a related field at the UoC or HHU (Bachelor's degree completed)
- » You have already gained experience in the cultivation of organisms and have a deep understanding of prokaryotic metabolic pathways
- » You enjoy working in the lab
- » You have a good command of English, both written and spoken, in order to communicate successfully with the team.
- » You work in a structured, independent and responsible way and have analytical and problem-solving skills

WE OFFER

- » Insights into an interdisciplinary field of research
- » A diverse working environment with equal opportunities
- » Support in balancing work and family life
- » Extensive advanced training opportunities
- » Occupational health management offers
- » Flexible working time models
- » Opportunity to work remotely

The University of Cologne promotes equal opportunities and diversity. Women will be considered preferentially in accordance with the Equal Opportunities Act of North Rhine-Westphalia (Landesgleichstellungsgesetz – LGG NRW). We also expressly welcome applications from all suitable candidates regardless of their gender, nationality, ethnic and social origin, religion, disability, age, sexual orientation and identity.

The position is to be filled on a part-time basis (32 – 39 hours per month) as soon as possible. It is initially limited for 12 months with the option of extension. Remuneration is based on the university's internal guidelines for the employment and remuneration of academic and student assistants.

Please apply online with proof of the required qualifications without a photo under: <https://jobportal.uni-koeln.de>. The reference number is Wiss2502-03. The application deadline is 21.02.2025. For further inquiries, please contact Lea Kloss (lkloss@uni-koeln.de) and take a look at our [FAQs](#).