

1 PhD position (m/w/d) on antimicrobial resistance evolution at Kiel, Germany

Well-motivated and highly-qualified students from all countries are welcome to apply. We are looking forward to your application for a PhD position to join the **Schulenburg group** at **Kiel University** in the beautiful landscape of Northern Germany.

Application deadline: **23. August 2026**.

The PhD position is for 3,5 years with a possible extension for another 6 months. It is based in the Schulenburg group (<https://evoecogen-kiel.de/>). The PhD project aims at understanding how evolutionary principles can be harnessed to constrain bacterial adaptation to antimicrobial drugs. The specific focus is on the influence of mutation rates for resistance against different antimicrobials and associated evolutionary trade-offs, such as collateral sensitivity, on resistance evolution. As model pathogen, we will focus on UTI *E. coli* and/or lung-infecting *Pseudomonas aeruginosa*. As a general reference, check out the group's publications on AMR evolution, as listed on our webpage (<https://evoecogen-kiel.de/publications>). The position will be integrated within the graduate school on Translational Evolutionary Research (<https://transevo.de/>), providing numerous opportunities for exchange with colleagues working on related topics.

Your profile:

- Master of Science or equivalent
- Master thesis or equivalent in the field of Evolutionary Biology or Microbiology
- Competences and experiences in experimental as well as molecular laboratory work with microorganisms
- Knowledge in the field of statistics or bioinformatics
- English language skills at level C1

Beneficial:

- Competences and experience in experimental research on antimicrobial resistance
- Competences and experience in performance of evolution experiments
- Competences and experience in genome analysis and in genetic manipulation of mikroorganisms
- Publication(s) from earlier research work

For enquiries regarding the position and research topic please contact Prof. Dr. Hinrich Schulenburg: hschulenburg@zoologie.uni-kiel.de

Please apply via the following link:

<https://www.uni-kiel.de/personal/de/stellen/extern/wiss/doktorand-in-am-zoologischen-institut-ag-schulenburg>

Applications should be submitted as a **single** PDF. Applications should include:

- (1) A letter of motivation (max. 2 pages, Arial 11, line spacing 1.15). In your motivation letter, please explain how your background fits the required profile and how your research interests align with the group research focus.
- (2) Curriculum vitae.
- (3) Master certificate (or current grades transcript in case of ongoing studies)