The Chair of Microbial Biology at the Faculty of Biology and Biotechnology is looking for a

**PhD position (m/f/d) "Molecular mechanisms of bacterial predation" for 3 years, 25,8895 hours per week, TV-L E13**

We are looking for a motivated coworker who is interested in pursuing experimental studies in the areas of bacterial behavior, interspecies interactions and protein translocation. Our group is located at the Chair for Microbial Biology at the Department of Biology and Biotechnology.

**Your tasks:**
- We study the behavior of the predatory soil bacterium Myxococcus xanthus, which kills other microorganisms to feed on their biomass. The research project addresses the molecular mechanisms of bacterial predation and focuses on the functional characterization of protein secretion systems that mediate prey killing and lysis (cf. Thiery et al., Cell Rep 2022). A second aim is to understand the unknown molecular basis of prey recognition. We apply a broad range of genetic tools, real time fluorescence microscopy, and biochemical assays to study protein-protein interactions to address these questions.

**Your profile:**
- Required is an excellent MSc degree in biology, biochemistry or a related discipline, ideally with a focus on microbiology or molecular biology. Experience in fluorescence imaging is a plus. Further mandatory skills are a very high motivation to engage in independent scientific research, the ability to work in a team, and very good English skills.

**Our offerings:**
- Challenging and varied tasks with a high level of personal responsibility
- a dynamic environment
- an open working atmosphere

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**The Ruhr-Universität Bochum**

The Ruhr-Universität Bochum is one of Germany's leading research universities, addressing the whole range of academic disciplines. A highly dynamic setting enables researchers and students to work across the traditional boundaries of academic subjects and faculties. To create knowledge networks within and beyond the university is RUB's declared aim.

The Ruhr-Universität Bochum stands for diversity and equal opportunities. For this reason, we favour a working environment composed of heterogeneous teams, and seek to promote the careers of individuals who are underrepresented in our respective professional areas. The Ruhr-Universität Bochum expressly requests job applications from women. In areas in which they are underrepresented they will be given preference in the case of equivalent qualifications with male candidates. Applications from individuals with disabilities are most welcome.
Additional information:

At the request of the applicant (m,f,x), the staff council may be involved in selection interviews.

If the position is funded by third-party funds the employee has no teaching obligation.

Contact details for your application:

Dr. Christine Kaimer, Phone: +49234 32 28897

Travel expenses for interviews cannot be refunded.


We are looking forward to receiving your application with the specification ANR: 1859 until 15.05.2023, send by e-mail to the following address: christine.kaimer@rub.de