

*We are one of the youngest universities in Germany and think in terms of possibilities, not limitations. In the heart of the Ruhrregion, we develop ideas of the future at our 11 faculties. We are strong in research and teaching, live diversity, support potential and are highly committed to an educational equality that has earned this name.*

The University Duisburg-Essen (Campus Essen), Faculty of Chemistry, departments of Aquatic Microbial Ecology and Aquatic Ecosystem Research, offers a position as

**PhD position (f/m/x)  
(Salary equivalent to TV-L 13)**

**Your tasks:** The groups for Aquatic Microbial Ecology (Prof. Probst) and the group for Aquatic Ecosystem Research (Prof. Leese) seek a highly motivated young researcher interested in metagenomics of stream ecosystems.

As a PhD student working in both groups, the researcher will test and establish standards for DNA-extraction and bioinformatically analyze microbial communities of aquatic ecosystems using high-throughput metagenomics data. The research will focus on comparing the effects of different stressors (e.g. heat, pollutants, altered flow) on the microbial communities and the respective selection pressures. The student will be embedded in the DFG-funded Collaborative Research Center RESIST (SFB-1439; <https://sfb-resist.de>) and have access to our high-performance computing cluster.

The position is situated in the Aquatic Microbial Ecology but a close interaction and collaboration with the group Aquatic Ecosystem Research is necessary and ensured. Our young and dynamic team of microbiologists and computational biologists seeks to increase the diversity in our group and we specifically encourage international students to apply. Communication of scientific results to engineers and other non-bioinformatic audiences will be necessary. The interdisciplinary research will provide profound education in microbiology, ecology, and bioinformatics. International traveling is required.

**Your profile:**

- Completed university studies (Master of Science) in Water Science, Microbiology or equivalent of at least 8 semesters.
- Experience with analytical methods and microbiological experiments.
- Excellent command of written and spoken English.
- Furthermore, we expect a high degree of self-initiative, inventiveness and creativity, as well as good interpersonal skills and flexibility.

**Start of position:** April 2022

**Contract period:** 36 months

**Working time:** 65% of a full-time position

**Application deadline** February 16th, 2022

The University Duisburg-Essen aims at promoting the diversity of its members (s. <http://www.uni-due.de/diversity>)

The University Duisburg-Essen has been awarded for its effort to promote gender equality with the "Total-E-Quality-Award". It aims at increasing the share of women in the scientific personnel and therefore explicitly encourages women to apply. Women will be preferentially considered when equally qualified according to the state equality law.

Applications from disabled or equivalents according to § 2 Abs. 3 SGB IX are encouraged.

Applications and inquiries with reference code **046-22** should be addressed to:

Prof. Dr. Probst  
University Duisburg- Essen  
Faculty of Chemistry,  
45117 Essen

You'll find information about the Faculty and the contracting authority under: <https://www.uni-due.de/umb/>  
[www.uni-due.de](http://www.uni-due.de)

