# PhD Position on Polymer Biodegradation by Wastewater Microbiomes



Are you passionate about conducting fundamental research that creates impact to sustainability? Our group at the University of Vienna is offering an exciting opportunity. Join us to explore the biodegradation of water-soluble polymers by wastewater microbiomes!

# **Your PhD Project:**

Water-soluble polymers (WSPs) are essential for numerous applications, and, after use, they enter wastewater systems. This project addresses the critical need for sustainable end-of-life solutions for WSPs. Specifically, the planned research will focus on elucidating how polymerand wastewater-related factors govern WSP biodegradation. You will employ respirometry-based laboratory tests to quantify biodegradation rates and extents – complemented with microbiome analyses to characterize key microbial players. This research aims to reveal the interplay between factors and will have significant impact – also through collaboration with leading chemical industry partners.

### We Are:

Our research group is part of the Centre for Microbiology and Environmental Systems Science (<u>CeMESS</u>) at the University of Vienna (Austria). We are dedicated to conducting cutting-edge research at the intersection of chemistry, microbiology, and environmental science and to informing solutions to current environmental challenges.

#### We Offer:

- A supportive and stimulating working environment and excellent laboratory facilities
- A fully funded position in accordance with the collective bargaining agreement starting in July/August 2025 or as soon as possible thereafter
- Opportunities for international collaboration and career mentoring
- A chance to live and work in Vienna renowned for its high quality of life.

#### Your Profile:

- A master's degree in environmental science, chemistry, microbiology, or a related field.
- Laboratory experience in one or several of the above research fields is an asset.
- Fluent in spoken and written English.
- High motivation, independence, and reliability.

## **How to Apply:**

Send one PDF file containing your CV (including contact details of at least two referees) and a letter of motivation (outlining your interest in the topic and how you fit to the position) to: michael.zumstein@univie.ac.at.

Applications will be considered until the position has been filled.