

Funded PhD student position at the Bergthaler Lab in Vienna, Austria (f/m/x)

We plan to fill a funded PhD student position in the Bergthaler Lab at the Medical University of Vienna, Austria. The project will apply cutting-edge methods from molecular biology and data analysis to advance *pathogen surveillance* in wastewater and other environmental contexts. This basic research project is positioned at the intersection of infectious diseases, public health and epidemiology. Its ambition is to develop public health applications that will impact human well-being.



Ruin of a second-century public toilet in ancient Rome (source: Fr Lawrence Lew, OP, CC BY-NC-ND)

Your profile:

- + M.Sc. or similar degree in biology, molecular biology, bioinformatics, data science, environmental engineering or related studies.
- + Excellent English skills
- + Self-dependent and self-motivated working style
- + Experience and/or keen interest in some of the following areas: DNA sequencing technologies; Data analysis with e.g., R, Python, Perl; Statistical expertise; Data visualization; Public health of infectious diseases

We offer:

- + Funded position remunerated according to the Austrian Science Fund (FWF).
- + A diverse and supportive team in a meaningful, inspiring, and international setting.
- + Access to cutting-edge scientific infrastructure and comprehensive data sources.

The Lab: Prof. Andreas Bergthaler is Professor of Molecular Immunology at the Medical University of Vienna (<https://www.meduniwien.ac.at/web/en/>) and heads the Institute of Hygiene and Applied Immunology (<https://www.meduniwien.ac.at/hp/en/hai/>) at the Center for Pathophysiology, Infectiology and Immunology. Dr. Bergthaler is also Adjunct Principal Investigator at the CeMM Research Center for Molecular Medicine (<https://cemm.at/>) of the Austrian Academy of Sciences.

The Bergthaler lab consists of 18 members representing 9 nationalities and interdisciplinary backgrounds who closely collaborate across projects. Their research focuses on fundamental questions of viral infections, inflammatory diseases and pathogen surveillance (e.g., *Lercher A et al. Immunity 2019*, *Baazim H et al. Nature Immunology 2019*, *Popa A et al. Science Translational Medicine 2020*, *Agerer B et al. Science Immunology 2021*, *Amman F, Markt R et al, Nature Biotechnology 2022*). Lab Website: <http://www.bergthalerlab.com>

The Institution: The Medical University of Vienna is one of the world's leading medical universities. With its long history and tradition covering more than 600 years, the university has developed into a modern research institution with a staff of 6,000. The position will be at the Institute of Hygiene and Applied of the Center for Pathophysiology, Infectiology and Immunology of the Medical University of Vienna.

The Location: Austria's capital Vienna is located in the heart of Europe and ranks as one of the most attractive cities worldwide. Vienna offers a vibrant melting pot of expat communities who may enjoy, for example, cultural and culinary occasions or the nearby outdoors of the Vienna Woods.

Application Details

Please send your cover letter, your CV, and the contact details of two referees with the reference code "PhD-1" to hai-office@meduniwien.ac.at. Applications will be reviewed on a rolling basis.