

Görke lab

Technician position in Molecular Microbiology

We are looking for a lab technician to work on an exciting FWF-funded project in basic research, which addresses novel regulatory mechanisms in the cell envelope stress response in the non-pathogenic model bacterium *Escherichia coli*-K12. The successful candidate should hold an MSc degree in Molecular Biology, Microbiology or a related field and have solid wet-lab experience to conduct experiments in molecular biology.

The candidate shall support ongoing research projects of the group but may also pursue an individual (sub)project. Therefore, a high level of independence and good organizational skills are required.

The work will involve diverse methods including cultivation of bacteria, genetic engineering, protein purification, techniques for detection of RNA and protein (e.g. Northern/Western blotting), methods addressing interaction of biomolecules (pull-down, two-hybrid system) and others. Experience in working with bacteria and prior knowledge in Microbiology are highly appreciated but not a prerequisite to fill the position. As we are located at an international institute, good English skills are required.

About the project

Infection diseases caused by viruses and bacteria represent major threats for human health, livestock and agriculture. Gram-negative bacteria of the family *Enterobacteriaceae* including pathogenic *E. coli* strains are of particular concern as resistances against currently used antibiotics are rapidly emerging, demanding for novel therapies. These bacteria are protected by a cell wall sandwiched between an inner and an outer membrane, which forms an effective barrier limiting the efficacy of several antibiotics.

The cell envelope is crucial in sensing the external environment, activating intracellular signaling pathways through which the bacteria adapt to changing conditions. When they are exposed to antibiotics or other stresses that target the envelope, they activate multiple stress response systems to protect themselves. In our projects, we want to understand how these regulatory networks respond to envelope perturbation and achieve protection and repair.

About the Görke lab

Our laboratory is located at the [Max Perutz labs](#) – a joint venture Institute for Molecular Biology of the University of Vienna and the Medical University of Vienna on the Vienna BioCenter Campus. The laboratory is fully equipped and the campus offers access to multiple research facilities.

[Additional information on the Görke lab.](#)

MAX PERUTZ LABS

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BioCenter



What we offer

A technician position in an excellent research institute that is highly dynamic and international. The work will be non-routine and allows to develop creativity and independent thinking. Working times can be organized in a flexible manner depending on the organisational skills and independence of the candidate.

The employment contract (40 h/week) will be according to the standard salary for CTA positions funded by the FWF (<https://www.fwf.ac.at/en/research-funding/personnel-costs/>). The position is first limited to 3 years.

Depending on the interests and achievements of the candidate, the position may develop into a PhD project provided that the criteria for joining the doctoral school are met (for more information, please see: <https://www.viennabiocenter.org/education/>).

Application

Please send your application documents to boris.goerke@univie.ac.at. Suitable candidates will be invited for interview. The position can be filled immediately. Applications will be considered until the position is filled.

About the Max Perutz Labs

The Max Perutz Labs are a research institute established by the University of Vienna and the Medical University of Vienna to provide an environment for excellent, internationally recognized research and education in the field of Molecular Biology. Dedicated to a mechanistic understanding of fundamental biomedical processes, scientists at the Max Perutz Labs aim to link breakthroughs in basic research to advances in human health. The Max Perutz Labs are located at the [Vienna BioCenter](#), one of Europe's hotspots for Life Sciences, and host 45 research groups, involving around 400 scientists and staff from 50 nations.

www.maxperutzlabs.ac.at