Graz University of Technology is the longest-established university of technology in Austria. Here, successful teams of students, talented up-and-coming scientists, ambitious researchers and a lively start-up scene enjoy an inspirational environment as well as access to top-quality equipment. And all this in one of the most innovative and livable regions in Europe.

The “Young Researcher Group” is part of the Institute of Molecular Biotechnology at the Graz University of Technology, the longest-established University of technology in Austria. Here, successful teams of students, talented up-and-coming scientists, ambitious researchers and a lively start-up scene enjoy an inspirational environment as well as access to top-quality equipment. And all this in one of the most innovative and livable regions in Europe. TU Graz offers an inspiring working environment with outstanding infrastructure and service-oriented university management.

The Institute of Molecular Biotechnology at TU Graz has an opening for a

**PhD student (m/f/d) in the area of biochemistry and molecular biology**

30 hours/week, for 3 years, start of employment March 2023

The successful applicant will biochemically investigate redox-enzymes found in pathogenic bacteria. The project ultimately aims to understand enzyme mechanisms critical to the pathogenicity of bacteria. The project is a “Young Researcher Group” project within BioTechMed-Graz, a research alliance of the University of Graz, the Graz University of Technology, and the Medical University of Graz.

**Duties and Responsibilities:**
- Display initiative in identifying and resolving problems
- Writing a PhD dissertation
- Expression and production of bacterial redox enzymes
- Spectroscopic and biophysical techniques (e.g. microscale thermophoresis) to study enzyme mechanisms and interactions
- Enzyme engineering using rational and semi-rational design (site-directed and site-saturation mutagenesis)

**Requirements:**
- Excellent academic record and master degree (or equivalent) in biochemistry, molecular biology, biotechnology, molecular sciences or related disciplines.
- Advanced knowledge in one of the following areas: biochemistry, protein-substrate interactions, protein chemistry, enzyme kinetics.
- Excellent proficiency in English (written and oral).
- Eligibility according to MSCA criteria.

**We offer:**
- Collaboration within Graz and international partners
- Trainings and summer schools in an international, interdisciplinary academic and industrial network
- Cutting-edge research in an exciting international research environment
- Exciting opportunities for professional and personal development
- Workplace Health Management
- Award for being the most family-friendly enterprise in Styria 2018
- Shopping Discounts
- Possibility for Home-Office
- Seal of quality for in-house advancement of women

We offer a minimum annual gross salary based on full-time of € 42,820,40.

Graz University of Technology actively promotes diversity and equal opportunities. People with disabilities and who have the relevant qualifications are expressly invited to apply.

**How to apply:**
The application, in English, must be submitted to daniel.kracher@tugraz.at until the 16th January 2023 (only applications that are complete, in English and submitted until the deadline will be considered eligible).

Please, submit the following documents:
- A cover letter, stating your motivation to join the doctoral network
- CV: a one to two page synopsis of yourself, your scientific interests, experience, current research work and a list of publications
- A letter of recommendation from former advisors/professors (optional)

Further information [https://biotechmedgraz.at/en/](https://biotechmedgraz.at/en/)

**Applications deadline:** January 16, 2023