

SPACE FOR YOUR TALENT.



The world is changing at an ever-faster pace. At the Johannes Kepler University Linz, we work on technologies and the ideas of tomorrow on a daily basis. At the same time, we educate over 23,000 young people to meet the demands of today's job market. In short, we are Upper Austria's largest institution for education and research. Are you interested in being a part of shaping the future at Austria's most attractive campus university? We currently have a job opening starting March 1, 2023 for a:

Ph.D. Student (Graduate Teaching Assistant, must hold a Diploma/Master's degree) for a 30-hour/week, four-year position at the Institute of Biochemistry

Job Reference Number: 5195

Project summary:

This project aims to discover how protein dynamics evolve or can be engineered in support of molecular function. You will investigate (1) how enzyme dynamics have co-evolved with structure over the course of millions of years (established by ancestral sequence reconstruction); (2) investigate how mutations affect the dynamics of enzymes that can degrade polymeric materials such as plastics. The primary experimental method we use is NMR spectroscopy, specifically the use of backbone (^{15}N) and side chain spin (^1H , ^2H , ^{13}C) relaxation rates and their analysis in time scales and amplitudes of motion. The project will use integration with bioinformatics and computational methods, such as MD simulations.

Job Duties:

- Design and perform independent research in the field of protein NMR spectroscopy
- Be actively involved in research result generation, including writing manuscripts and submitting these for publication in international peer-review journals
- Present at national and international conferences
- Participate in co-supervision of BSc and MSc students
- Be strongly motivated to write a PhD dissertation
- Assist in outreach activities on behalf of the Institute
- Provide support for duties of the Institute (e.g. exam supervision)
- Assist students and research collaborators in the Institute laboratory

Your Qualifications:

- The successful candidate must hold a Diploma/Master's degree in Chemistry, Biochemistry, Physics, Biophysics, Nanoscience or relevant field for the research project, or an equivalent qualification
- Possess a strong academic background in the work with proteins and/or physical chemistry and/or molecular spectroscopy
- Prior experience in the production of proteins and NMR spectroscopy is highly desired
- Demonstrate prior research experience and the ability to conduct independent research
- Demonstrate good work attitude (perseverance, objectivity, patience, integrity, ethics)
- Possess good interpersonal and communicative skills
- Strong command of spoken and written English (level B2 or equivalent qualification)
- Knowledge of German is a plus, or willingness to learn otherwise
- Prior international research experience or exchange is desired

What We Offer:

- On the basis of full-time employment (40 hours/week) the minimum salary in accordance with the collective agreement is € 3,058.60 gross per month (14 x per year, CA Job Grade: B1)
- Stable employer
- Attractive campus environment with good public transportation connections
- Attractive continual educational opportunities
- State-of-the-art research infrastructure
- Dynamic, diverse and international research environment
- Broad range of on-campus dining services/healthy meals (organic food at the cafeteria)
- Exercise and sports classes (USI)
- ...and much more

Application Deadline: February 1, 2023.

The Johannes Kepler University wishes to increase the proportion of academic female faculty and, for this reason, especially welcomes applications by qualified women. If applicants are equally qualified, a woman will be given preference for this position. The university welcomes applications from qualified applicants with physical disabilities. These applications will be given special consideration.

How to Apply:

Prospective applicants interested in the multifaceted position are requested to electronically send an application in adherence to the stated criteria together with the requested documentation via our online portal jku.at/application or to the Johannes Kepler University Linz, Department of Human Resource Management, Altenberger Straße 69, A-4040 Linz. Please include "Job Reference Number 5195" in your application.

Contact:

If you have questions, please contact: Univ. Prof. Franciscus Mulder Ph.D., P +43 732 2468 9300,
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