

2 PhD Positions on High Speed and Molecular Recognition Microscopy



The **Atomic Force Microscopy (AFM) Group** (PI: **Prof. Peter Hinterdorfer**) at the Institute of Biophysics, Department of Applied Experimental Biophysics at **Johannes Kepler University (JKU) Linz** is looking for two **PhD students** for research on therapeutic antibodies utilizing various AFM methods, including molecular recognition force spectroscopy and high speed Bio-AFM.

The contract will be embedded in the project 'Molecular Recognition of Antibodies studies with high Speed AFM' funded by the **Austrian Science Foundation (FWF)**. PI in this research project is **Prof. Peter Hinterdorfer**.

Requirements:

- Degree and Master on any field of Biophysics, Physics, Biology or Biochemistry (completed before the contract starting date)
- Multidisciplinary qualifications (Physics/Bio). Knowledge of Atomic Force Microscopy, specifically Force Spectroscopy and High Speed Atomic Force microscopy will be a plus
- High level of English and good communication skills
- Ability to maintain accurate and up to date records
- Ability to organise and prioritise own work and organise research within the project schedule
- Computer literacy, analytical skills and effective team working

We offer:

- 3 years PhD contract. Competitive salary with all social benefits of a regular employment. Envisaged starting date: October 1st 2017
- Stimulating, interdisciplinary research and high quality international scientific environment

Interested applicants should send their CV, full academic sheet (*including scientific background, training and expertise, research interest, motivation for joining the project*), publication list, cover letter and two references to: peter.hinterdorfer@jku.at before September 1st 2017.

The **Johannes Kepler University (JKU) Linz** supports future-oriented academic degree programs, excellence in teaching and research, numerous partnerships in Austria and abroad, and a unique campus with park-like grounds. JKU has become a cutting-edge institution for science, academics, business and the community. Over 19,000 students are enrolled in over 60 modern, hands-on academic degree programs that have outstanding career prospects. The Institute for Biophysics at JKU (www.jku.at/biophysics/content) employs about 70 people with 7 permanent scientists. The research of the AFM group lead by **Prof. Hinterdorfer** is focused around nanoscopic techniques in life science, bio-nano technology, and medical diagnostics. In particular, the research covers molecular recognition, molecular dynamics, and transport in several molecular and cellular systems.