

Marie-Curie Early Stage Researcher on High Speed Molecular Recognition Microscopy



The **Atomic Force Microscopy Group** (PI: **Prof. Peter Hinterdorfer**) at the Institute of Biophysics, Department of Applied Experimental Biophysics at **Johannes Kepler University (JKU) Linz** is looking for an **early stage researcher (predoc)** to integrate molecular recognition force microscopy into a high speed atomic force microscope.

The contract will be within the framework 'Scanning probe microscopies for nanoscale fast, tomographic and composition imaging - SPM2.0' (ref. 721874) of the **Marie Curie Initial Training Network**. The **successful** candidate will be integrated into multidisciplinary training and research program of a consortium consisting of internationally renowned scanning probe microscopy specialists.

Requirements:

- Degree and Master on any field of Physics, Biophysics or Engineering (completed before the contract starting date)
- Multidisciplinary qualifications (Physics/Bio, Engineering/Bio etc.). 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

Marie-Curie fellowship Mobility requirement:

At the time of recruitment by JKU, candidates must not have resided or carried out their main activity (work or studies) in Austria for more than 12 months in the 3 years immediately prior to their recruitment.

We offer:

- 3 years PhD contract. Very competitive salary and mobility allowance. Envisaged starting date: March 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: katharina.ebner@jku.at, before January 15th 2017.

The **Johannes Kepler University (JKU) Linz** boasts 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.