

Master Student Nanoscale Electrochemistry on Lithium ion Batteries

Institute of Biophysics, Johannes Kepler University (JKU) Linz, Molecular Biosensing Group

We are looking for a Master student to work with us on a project that develops an electrochemical Scanning Probe Microscope, which allows nano-electrochemistry with ultra-high ns-temporal resolution. The Master student will be part of a small team that is currently developing a prototype of the microscope. The team consists of university partners and an industrial partner (Keysight Technologies) which is a leading electronics technology provider and will give a good insight into an industrial R&D environment.

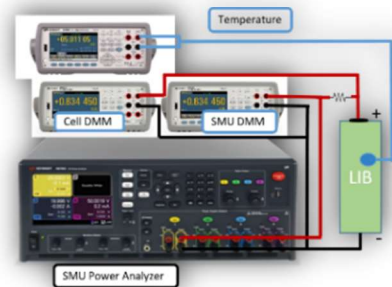
The work will be supervised by Dr. Georg Gramse (JKU Linz, Biophysics/ Keysight) in collaboration with Assoc. Univ.-Prof. Andreas Ebner (JKU, Biophysics).

Duties:

- Sample preparation for electrochemical measurements
- Improvement and development of measurement routines

Your Qualifications:

- You have a some background in either scanning probe microscopy, nanotechnology, physics, electrochemistry; interests in one of the other fields or electrical engineering, Matlab™ programming are a plus.
- You are curious to solve new problems, have an attitude to solve problems self-driven and independently with the support of our team.
- As good team player, you like working in small teams in an international environment where a good communication internally and externally is crucial.
- Besides good subject knowledge, emphasis will be on creative thinking, motivation, ability to cooperate, initiative to work independently and personal suitability for scientific thinking.
- Clear communication skills to engage with key partners of the project.



The Master student will receive a “Forschungsbeihilfe” of ~440€/m for up to 6 month.

If you are interested, please contact

Dr. Georg Gramse, Phone: [+43 732 2468 7652](tel:+4373224687652),

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Assoz. Univ.-Prof. Andreas Ebner, Phone: [+43 732 2468 7637](tel:+4373224687637),

E-mail: andreas.ebner@jku.at.

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.