



universität
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Faculty of Physics

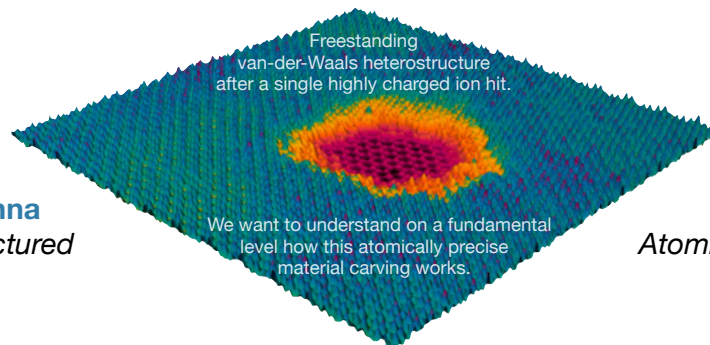


TECHNISCHE
UNIVERSITÄT
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Vienna | Austria

Announcement for two open positions as

Doctoral Candidate

Faculty of Physics
of **University of Vienna**
*Physics of Nanostructured
Materials Group*



Postdoctoral Researcher

Institute of Applied
Physics of **TU Wien**
*Atomic and Plasma Physics
Research Unit*

to be filled as soon as possible for a duration of 3.5 years (**PhD student**) and 2.5 years (**PostDoc**). Remuneration follows the Collective Agreement for Austrian Universities at the level B1-PræDoc with 30 h per week (PhD student) or B1-PostDoc with 40 h per week (PostDoc).¹

Within a joint project between **University of Vienna** and **TU Wien**, we will investigate the interaction of ions with solid surfaces. The charge of an incoming ion changes as soon as it gets into contact with a surface, which leads to a complex interplay between the slowing down of the ion, charge exchange, scattering cross section as well as material damage. **University of Vienna** will be responsible for 2D heterostructure sample preparation and characterization using atomically resolved transmission electron microscopy, while **TU Wien** will focus on with high-precision ion transmission measurements. These experimental activities will support the development of beyond state-of-the-art modeling techniques to simulate the interaction processes of highly charged ions with two-dimensional materials.

The positions are to be filled with talented researchers in an early stage to obtain a **PhD degree at University of Vienna** and a **PostDoc at TU Wien**. The candidates will have the opportunity to engage with the vibrant teams at both institutes working with state-of-the-art ion technology and scanning transmission electron microscopy and become familiar with modern time-dependent density functional theory simulations.

Additional information on the existing working group and contact details can be found at <https://physnano.univie.ac.at/research/susi-group> or <https://ions.science>.



Requirements

Excellent university graduation (MSc or PhD, respectively) in the fields of Physics, Chemistry, or Materials Science. Experience in the areas of specimen preparation, transmission electron microscopy, ultra-high vacuum technology, ion sources or particle detectors is appreciated. Fluent use of the English language is mandatory, German is an asset.

Application documents

Letter of Intent, CV and Degree Certificates (inkl. grades) from university level education onwards. The documents are to be sent as a single PDF file via email to toma.susi@univie.ac.at and wilhelm@iap.tuwien.ac.at. Applications will be considered until the positions are filled.

¹ The salary is subject to taxation and mandatory social insurance fees including health and unemployment insurance coverage and access to the public pension fund. More information on the Austrian regulations of employment and the social security system can be found here: <https://www.migration.gv.at>.