

Job ID: ESI088DOC224

The Erich Schmid Institute of Materials Science ([ESI](#)) of the Austrian Academy of Sciences ([OeAW](#)), Austria's leading non-university research and science institution, is offering a

PHD STUDENT POSITION (F/M/X)

(part-time, 30h per week)

in the framework of the FWF project “**Unraveling the atomic-scale deformation of metallic glasses**” for a **3-year term of employment**.

The aim of the project is to improve our understanding of the fundamental deformation mechanisms in metallic glass by combining atomistic simulations with advanced transmission electron microscopy.

Your tasks:

The successful candidate will be part of an international team whose research activities focus on the synthesis, advanced nanocharacterization and atomistic simulation of complex materials. The candidate's task will focus on revealing changes in the atomistic structure of metallic glasses during *in situ* deformation in the TEM using 4D-STEM. This requires mastering complex experiments and developing data analysis routines. By working closely together with team members doing atomistic simulations a direct link between experiment and simulation will be established. The candidate is expected to present the findings at international conferences and publish the results in top international journals.

Your profile:

- Master in Materials Sciences, Chemistry, Physics or equivalent
- Prior experience with TEM
- Background in programming and data analysis
- Interest in learning new complex experimental techniques and developing custom data analysis routines using python scripting
- Excellent communication skills in spoken and written English
- We are seeking independent, responsible and team-oriented candidates

We offer an international, ambitious environment for basic research-oriented candidates who want to perform cutting-edge research with open access to world-class synthesis and characterization facilities. We have a friendly and dynamic research environment and strong collaborations with many international academic partners.

The appointment begins as at the earliest possible date (ca. October 2024). The gross salary will be € 2.698,10 according to the collective agreement of the Austrian Academy of Sciences.

Please send your application including a motivation letter and an academic CV via email to: christoph.gammer@oeaw.ac.at or daniel.sopu@oeaw.ac.at **no later than August 31st, 2024**. Evaluation of candidates will begin immediately and will continue until the position is filled. Please note that only complete applications will be processed.

The Austrian Academy of Sciences (OeAW) pursues a non-discriminatory employment policy and values equal opportunities, as well as diversity. Individuals from underrepresented groups are particularly encouraged to apply.