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 Position as

**POSTDOC POSITION (f/m/x)**

(full-time, 40h per week)

in the framework of the ANR-FWF project “Nanoarchitected films for unbreakable flexible electronics” for a fixed term appointment until June 30th, 2024 (project end date)

Thin films are used in a wide variety of applications due to the unique properties which are imparted at the micro- and nanoscale. However, sub-micrometer thin metal films behave, and thus fail, differently than bulk materials. In this project, thin film architectures and composite structures will be studied to determine their electro-mechanical reliability using a variety of in-situ testing methods.

**Your tasks:**
- You will be part of an international team whose research activities focus on the synthesis of thin film systems for use in flexible electronic devices and the in-depth microstructure characterization in combination with simultaneous measurements of their mechanical and electrical behavior.
- Work in a dedicated team and have the opportunity to enhance your scientific career, including participation in international conferences (possibly virtually).

**Your profile:**
- PhD in Materials Sciences, Chemistry, Physics or equivalent.
- Background in flexible electronics, including combined electro-mechanical testing (uniaxial, biaxial, and bending, in-situ and ex-situ)
- Experience with X-ray diffraction (especially synchrotron beamlines) and the respective data evaluation and proposal writing for beamtimes. Successfully awarded proposal(s) are a plus.
- Scientific programming (3+ years in Python using Pandas, SciPy, scikit-learn and TensorFlow) highly recommended.
- Experienced user of electron microscopy methods (SEM/FIB).
- We are seeking independent, responsible, team-oriented candidates.
- Excellent communication skills in spoken and written English are mandatory. German language is plus.

We offer an international, ambitious environment for basic research-oriented candidates who want to perform cutting-edge research with 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 at the earliest possible date (ca Oct. 2023). We offer an annual gross salary of € 60,926,60 according to the collective agreement of the Austrian Academy of Sciences.

Please send your application, including a motivation letter, a CV, a sample of scientific work and degree certificates via email to megan.cordill@oeaw.ac.at (mentioning Job ID: ESI104PD223) no later than September 1st, 2023. 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.*