

Job ID: ESI118DOC221

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)

(full-time / 40h per week)

in the European Research Council project “**SPD nanostructured magnets with tuneable properties**” for a fixed term appointment until December 31, 2023 (project end date).

Nanostructured magnets are nowadays considered to be the next generation of magnetic materials because superior magnetic properties can be achieved by their nanocrystalline microstructure. For engineering applications, however, bulk magnets are required. In this ERC-project, the potential to fabricate bulk nanostructured magnets by severe plastic deformation (SPD) as an innovative processing route is evaluated.

### Your tasks:

The successful candidate will be part of a team whose research activities focus on the synthesis of bulk nanostructured magnetic materials. The focus of the work will be on the magnetostrictive behavior of SPD materials in combination with an in-depth microstructural characterization. You will have the opportunity to enhance your scientific career, including participation in international conferences and dissemination of results in scientific journals.

### Your profile:

- Completed Master study in Materials Sciences, Physics or equivalent.
- Background in SPD methods and sample fabrication, microstructural characterization (SEM, XRD) and magnetostriction measurements.
- We are seeking independent, responsible and team-oriented candidates.
- Excellent communication skills in spoken and written German and English are mandatory.

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 as at the earliest possible date. We offer an annual gross salary of € 41.768,58 according to the collective agreement of the Austrian Academy of Sciences (OeAW).

Please send your application including a CV, a sample of scientific work and degree certificates and transcripts (including grade scale) via email to: [andrea.bachmaier@oeaw.ac.at](mailto:andrea.bachmaier@oeaw.ac.at), (mentioning Job ID: ESI118DOC221) **no later than October 4, 2021**.

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. The OeAW lays special emphasis on increasing the number of women in senior and in academic positions. Given equal qualifications, preference will be given to female applicants.*