The Erich Schmid Institute of Materials Science (ESI) of the Austrian Academy of Sciences (ÖAW) is currently offering a

**POST DOC POSITION (F*M)**

(full time, 40h per week)

for Synthesis and characterization of **Tribological Thin Films**.

In the framework of the ERC Proof of Concept Grant “TriboMetGlass” (Thin Film Metallic Glasses for Tribological Applications) of the principal investigator Prof. Jürgen Eckert, ESI is seeking outstanding and enthusiastic researchers with a strong record of creativity and achievements in the area of thin film materials science of glassy metallic materials.

**Your Tasks:**

- Production and development of metallic glass tribological coatings by magnetron sputtering or cathodic arc deposition to investigate the structure-property relationships with respect to enhanced tribomechanical properties for next generation high performance coatings
- Characterization of the structural and tribomechanical properties using state of the art experimental techniques (SEM, XRD, TEM, nanoindentation, wafer curvature, tribological testing, ...)

The project is based on different work packages and a close cooperation with industry is expected.

**Requirements:**

- PhD in material science/physics, mechanical engineering, metallurgy or chemical engineering
- Proven experience in PVD methods (cathodic arc deposition, magnetron sputter deposition, high-power impulse magnetron sputtering deposition) and thin film characterization (XRD, Raman spectroscopy, SEM, nanoindentation, wafer curvature, DSC, In situ tensile straining, tribological testing) are highly desirable
- Excellent English skills (written and spoken)
- High interest in interdisciplinary team-work and significant participation in international projects and conferences

Candidates with a strong, well-documented background in material science/physics and a great interest in thin film sciences are invited to apply. Please send your application including a letter of motivation, a CV, a list of publications and a letter of recommendation exclusively via e-mail to: daniela.brunner@oeaw.ac.at, no later than December 15, 2019. It is a rolling interview procedure, so please send your application in time.

The Austrian Academy of Sciences values diversity and is committed to equality of opportunity. The Austrian Academy of Sciences is committed to increase female employment in leading scientist positions. Qualified female applicants are strongly encouraged to apply.