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**186. Job Advertisement – One vacant position for a full-time university assistant (m/f/d) at the Chair of Reservoir Engineering, in the Department Geoenergy - Reference number: 2404WPB**

**187. Job Advertisement – One vacant position for a full-time Project Researcher (m/f/d) at the Chair of Materials Physics, in the Department Materials Science - Reference number: 2404WPC**

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**186. Job Advertisement – One vacant position for a full-time university assistant (m/f/d) at the Chair of Reservoir Engineering, in the Department Geoenergy - Reference number: 2404WPB**

**One vacant position** for a full-time university assistant (m/f/d) at the Chair of Reservoir Engineering, in the Department Geoenergy. Start from the earliest possible date in an employment contract limited to three year. Salary Group B1 according to the Uni-KV, monthly minimum salary excl. Szlg.: € 3.578,80 for 40 hours per week (14 x per year), actual classification is according to previous relevant experience.

**Project description:**

The position deals with geological CO<sub>2</sub> storage as part of the CCS (Carbon Capture and Storage) process chain as a carbon management measure. The aim of the project is to better understand and quantify drying processes and reactive transport processes through the injection of CO<sub>2</sub> into porous rock formations. To this end, numerical models will be developed and experimental data collected to calibrate them.

**Prerequisites:**

- Completed Master's degree in Reservoir Engineering, Physics or related subjects
- Good numerical and experimental knowledge and experience in the field of flows in porous media

**Desirable additional qualifications and motivations:**

- Active and goal-oriented management of the project
- A high level of motivation, curiosity and ability to work in a team is required

- **Opportunities:**

- Preparation of a dissertation
- Publications in scientific journals
- Working in an international environment
- Participation in international collaborations

**Reference number: 2404WPB**

**Application deadline: 08.05.2024**

The Montanuniversitaet Leoben intends to increase the number of women on its faculty and therefore specifically invites applications by women. Among equally qualified applicants, women will receive preferential consideration.

For the application please use the online form on the homepage: <http://www.unileoben.ac.at/jobs>

**187. Job Advertisement – One vacant position for a full-time Project Researcher (m/f/d) at the Chair of Materials Physics, in the Department Materials Science - Reference number: 2404WPC**

One vacant position for a full-time Project Researcher (m/f/d) at the Chair of Materials Physics, in the Department Materials Science. Start from May 2024 in an employment contract limited to 18 months. Salary Group B1 according to the Uni-KV, monthly minimum salary excl. Szlg.: € 3.578,80 for 40 hours per week (14 x per year), actual classification is according to previous relevant experience.

**Requirements:**

- Completed degree (Dipl.-Ing./MSc) in Materials Science with a focus on Materials Physics or a related field of study, such as Physics or Technical Physics
- Very good English speaking and writing performance.
- Motivation, team spirit and independence.

**Desired additional qualifications:**

- Good German speaking and writing performance.
- Sound basic knowledge in the area of mechanical properties of materials.
- Basic knowledge of fracture mechanics, materials testing and machine learning.
- Experience with various microscopy techniques (LIMI, LSCM, SEM, ...)
- Experience in the fabrication of micromechanical samples (especially using FIB).
- Knowledge of fabrication and characterization of thin films and nanostructured materials.

**Job Profile:**

- Powder-metallurgical synthesis and processing of nanostructured materials
- Method development and experimental design for the characterization of local mechanical properties and failure mechanisms in thin films and nanostructured materials
- Preparation, execution, evaluation and documentation of micromechanical experiments.
- Collaboration with international project partners.
- Preparation of publications in international journals.
- Giving presentations at international conferences.
- Preparation of a dissertation is possible.
- Willingness and motivation to participate in teaching.

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Der Rektor:

Univ.-Prof. Dipl.-Ing. Dr.mont. Dr.-Ing. E.h. Peter Moser

**Impressum und Offenlegung (gemäß MedienG):**

Medieninhaber, Herausgeber und Hersteller: Montanuniversität Leoben, Franz Josef-Straße 18, A-8700 Leoben.  
Vertretungsbefugtes Organ des Medieninhabers: Rektor. Univ.-Prof. Dipl.-Ing. Dr.mont. Dr.-Ing. E.h. Peter Moser  
Verlags- und Herstellungsort: Leoben. Anschrift der Redaktion: Zentrale Dienste der Montanuniversität Leoben, Franz-Josef-Straße 18, A-8700 Leoben. Unternehmensgegenstand: Erfüllung von Aufgaben gemäß § 3 Universitätsgesetz 2002, BGBl. I Nr. 120/2002 in der jeweils geltenden Fassung. Art und Höhe der Beteiligung: Eigentum 100%. Grundlegende Richtung: Information der Öffentlichkeit in Angelegenheiten der Forschung und Lehre sowie der Organisation und Verwaltung der Montanuniversität Leoben sowie Veröffentlichung von Informationen nach § 20 Abs. 6 Universitätsgesetz 2002.