

6. **Job Advertisement: One vacant position for a full-time Senior Lecturer (m/f/d) at the Chair of Metal Forming in the Department of Product Engineering - Reference Number: 2209WPE**
7. **Job Advertisement: One vacant position for a full-time Project Researcher (m/f/d) at the Chair of Mining Engineering and Mineral Economics, in the Department of Mineral Resources Engineering - Reference Number: 2210WPB**
8. **Job Advertisement: One vacant position for a full-time University Assistant (m/f/d) at the Chair of Petroleum and Geothermal Energy Recovery, in the Department Petroleum Engineering - Reference Number: 2210WPD**
9. **Job Advertisement: ne vacant position for a full-time Project Researcher (m/f/d) at the Chair of Waste Processing Technology and Waste Management, in the Department of Environmental and Energy Process Engineerings - Reference Number: 2210WPA**

6. **Job Advertisement: One vacant position for a full-time Senior Lecturer (m/f/d) at the Chair of Metal Forming in the Department of Product Engineering - Reference Number: 2209WPE**

One vacant position for a full-time Senior Lecturer (m/f/d) at the Chair of Metal Forming in the Department of Product Engineering starting as soon as possible in a unlimited employment relationship. Salary Group B1 according to the Uni-KV, monthly minimum salary excl. Szlg.: € 4.061,50 for 40 hours per week (14 x per year), actual classification is according to previous relevant experience.

Responsibilities:

- Supervising of scientific Bachelor, Master and PhD theses
- Acquisition, application, execution and management of research and industrial support projects
- Development of new lectures and labs. Teaching of students during bachelor and master courses as well as lecturing in special educational programs
- Publishing and presentation of research results in scientific literature and conferences

Requirements:

- Dr./PhD with background technical sciences
- Proactivity, creativity, reliability, well organized, analytical and conceptual skills as well as the ability to work in teams
- Good knowledge of the German language as well as good English skills
- Knowledge regarding finite element simulation and digitalization

We offer an interesting and diversified job, with the possibility to work in innovative research projects. A team oriented atmosphere, an intensive collaboration with industrial partners as well as the engagement in teaching supports the scientific and personality development.

Reference ID: 2209WPE

End of Application:02.11.2022

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>

7. Job Advertisement: One vacant position for a full-time Project Researcher (m/f/d) at the Chair of Mining Engineering and Mineral Economics, in the Department of Mineral Resources Engineering - Reference Number: 2210WPB

One vacant position for a full-time Project Researcher (m/f/d) at the Chair of Mining Engineering and Mineral Economics, in the Department of Mineral Resources Engineering - is open to be filled at the earliest date, on a temporary employment contract lasting 3 years.

Salary Group B1 according to the Uni-KV, monthly minimum salary excl. Szlg.: € 3.058,60 for 40 hours per week (14 x per year), actual classification is according to previous relevant experience.

Project background

S34I (SECURE AND SUSTAINABLE SUPPLY OF RAW MATERIALS FOR EU INDUSTRY) will research and innovate new data-driven methods to analyse Earth Observation (EO) data, supporting systematic mineral exploration and continuous monitoring of extraction, closure and post-closure activities. S34I uses EO not only for the management of technical and environmental issues for a green transition but also to support mining's social acceptance (SLO) and better legislation. S34I will exploit Copernicus and other satellite sensors (optical and radar), while other platforms as airborne, low-altitude platforms, ground-based, in-situ techniques/methods, and fieldwork will serve for calibration and validation.

S34I is an EU wide interdisciplinary and complementary team embracing partners from 13 countries and with a 50/50 balance between industrial and research profiles. S34I mining stakeholders will lead the path towards mining de-carbonization while creating social and economic impact through EO uptake.

Job description

We are looking for one PhD student for exploiting the broad capacity of earth observation in the mining environment, including all the aspects from SLO to technical aspects. The main focus will be on using multi-spectral satellite data (mainly Copernicus) for assessing the technical and environmental performance of mining sites. This includes aspects like high resolution geotechnical stability, ground movement, volume estimations, vegetation, and permitting, leading to assessment and pathways of how these technical developments influence the acceptance of mining in general and how the so-called Social Licence to Operate (SLO) can be improved by means of earth observation data.

What we are looking for / your background

Your background is in any of the engineering fields associated to the solution of the given task (civil, mining, surveying, remote technology, IT engineering, aeronautics, space), and you show a keen interest in developing comprehensive solutions in this project. This requires familiarity with photogrammetry, image analysis (preferably multispectral images), proficiency in one of the programming languages (e.g. matlab, python, C/C++), a basic understanding of sustainability, and an interest in project work, including the writing of reports.

Additionally, you are interested in doing a PhD, and you have a willingness to travel, show a self-reliant and independent working attitude, have good interpersonal and communication skills, and are fluent in English (written and oral).

What we offer

You will be working within a young and motivated international team of researchers at the Chair of Mining Engineering and Mineral Economics of Montanuniversitaet Leoben one of Europe`s top technical universities related to raw materials. In this project, you will be working on a very broad and highly relevant subject enabling you to further develop your skills on EO technology including services based on it and their impact on society, as well as personal skills in intercultural teamwork, project management, project management, and eventually building up confidence and capacity in presenting scientific results to various groups representing: science and technology professionals, the general audience, including sponsors, and other stakeholders around the industry.

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8. Job Advertisement: One vacant position for a full-time University Assistant (m/f/d) at the Chair of Petroleum and Geothermal Energy Recovery, in the Department Petroleum Engineering - Reference Number: 2210WPD

One vacant position for a full-time University Assistant (m/f/d) at the Chair of Petroleum and Geothermal Energy Recovery, in the Department Petroleum Engineering at the earliest possible date in a 4-year term of employment.

Salary Group B1 according to the Uni-KV, monthly minimum salary excl. Szlg.: € 3.058,60 for 40 hours per week (14 x per year), actual classification is according to previous relevant experience.

Description:

Energy and environmental aspects of geoscience remain the greatest challenges that our society will face in the coming decades. To provide a numerical tool for energy transition (e.g. underground energy storage) and environmental protection (e.g. sub-surface integrity), we develop an open-source finite element code that enables us to simulate multi-physical processes in sub-surface such as fluid and heat transport, or rock deformation and failure. For simulation of crack propagation in rock, a phase-field model has been adapted and implemented in our code. We are looking for a person who will further advance the method with the following specific focusses:

- dynamic crack propagation
- upscaling from laboratory to field scale (multiscale modeling)
- crack propagation in clay and salt rocks

Requirements:

- Engineering degree in Mechanical, Civil or Petroleum, or scientific degree in Applied Mathematics, Physics or Computational Science.
- Familiarity with numerical methods for solving PDE systems with experience in object oriented programming (preferably in C++).
- Good communication skills in English and team working capabilities.

Reference ID: 2210WPD

End of Application: 02.11.2022

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9. Job Advertisement: One vacant position for a full-time Project Researcher (m/f/d) at the Chair of Waste Processing Technology and Waste Management, in the Department of Environmental and Energy Process Engineering - Reference Number: 2210WPA

One vacant position for a full-time Project Researcher (m/f/d) at the Chair of Waste Processing Technology and Waste Management, in the Department of Environmental and Energy Process Engineering- starting probably 01-01-2023 in a fixed-term employment relationship until 31-12-2025. Salary Group B1 according to the Uni-KV, monthly minimum salary excl. Szlg.: € 3.058,60 for 40 hours per week (14 x per year), actual classification is according to previous relevant experience.

Tasks:

- Scientific collaboration in an interdisciplinary research project
- Further development of the Chairs expertise in the field of the application of secondary raw materials in the construction industry
- Supporting the teaching activities of the university
- (Inter-)National expert talks and publications
- Project management

Requirements:

University degree (Dipl.-Ing./MSc.), preferably in Industrial Environmental Protection and Process Engineering from the Montanuniversitaet Leoben or any other university with the focus on waste management and/or environmental engineering, earth- and environmental science or an equivalent education. Excellent command of written and spoken German and English are expected. The completion of a dissertation is aspired.

Additional qualifications:

Consolidated knowledge in the area of waste management and waste treatment. Knowledge in mineralogical Methods (e.g. EMPA or XRD) for the characterization of secondary raw materials and hydrogeochemical modelling (e.g. PhreeqC or LeachXSTM/ORCHESTRA).

We expect a structured working method, a team player with effective communication skills, high personal initiative and individual responsibility as well as reliability conducting the chairs teaching and research assignment.

We offer an interesting and a diversified position with the opportunity to cooperate in an innovative research project. A team oriented working atmosphere, the intense collaboration with partners from other research facilities and the industry as well as the commitment in teaching activities provide ideal conditions for a professional and personal development.

Reference ID: 2210WPA

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Der Rektor:
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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. Univ.-Prof. Dipl.-Ing. Dr.techn. Dr.h.c. Wilfried Eichlseder