

35. 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: 2211WPB

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- Start January 2023 in an employment contract limited to three year.

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.

Over the next years and decades, the world will undergo significant transformations, i.e. concerning sustainability and the provision of energy. These will also have significant consequences for the mining industry. Whilst the demand for energy raw materials might decrease, it is forecasted that overall demand for minerals will increase. In order to meet this demand without further increasing the environmental footprint and worsening their social impacts, mining processes will have to change significantly – with digitalisation, electrification and automatization playing a key role in these changes.

In this context, the Chair of Mining Engineering and Mineral Economics at Montanuniversität Leoben is strengthening its sustainability and mineral policy and economics research group. The research emphasis of this group is on mining and mineral raw materials and their role in the sustainability transition. Focus areas include the quantification of the environmental impacts of all phases of the extraction life cycle, the social acceptance of mining, and the impacts of various relevant European and national legislation. Overall, the research has an applied character and is conducted in close cooperation with industry and research partners throughout Europe (Horizon Europe).

We are looking for an experienced Post Doc, who will take over the leadership of the research group, and expand the team through the successful acquisition of research projects and collaboration with industry, contributing to the sustainability transformation of the mining industry.

A special focus will also be the management of the Chair's participation in the Horizon Europe project MaDiTraCe. The project aims to develop and test independent digital and geo-based approaches for CRM traceability and to integrate them with a generic certification scheme throughout mineral supply chains from the mine to the manufactured and recycled products. This methodology will enable downstream industrials to prove the reliability of their sustainability claims, complying with regulation in force (notably EU Battery regulation, German Supply Chain Act) and anticipating implementation of regulation to come (EU Directive on Corporate Sustainability Due Diligence).

Tasks

- Leadership of an interdisciplinary research group and collaboration with other teams in the field of sustainable mining technology with a focus on open pit and underground mining, conveying and digitalization
- Planning, coordination and collaboration on research proposals and projects, both in international and national research programmes and with industry
- Execution of the Horizon Europe project MaDiTraCe
- Teaching courses in the mining and raw materials related BSc and MSc programmes

Requirements

- Completed doctoral studies preferably in the fields of mining, (mineral) economics, political sciences or civil engineering
- Willingness and ability to carry out scientific work in teaching and research
- Familiarity with mining technologies, characteristics of mineral deposits, processing, as well as environmental and social impacts of mining and the European raw materials policy space
- Interest in the field of sustainability science and IT solutions
- Willingness to travel, and have good interpersonal and communication skills as well as understanding and adaptability to cultural differences
- Very good knowledge of English and a willingness to acquire basic German skills

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 Montanuniversität 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 sustainability of mineral raw materials considering their impact on society and the environment as well as tracking and tracing of raw materials across supply chains.

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End of Application: 30.11.2022

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>

The Rector:

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

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