Mitteilungsblatt

der Montanuniversität Leoben

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67. Job Advertisement: - One vacant position for a full-time university assistant (m/f/d) at the Chair of Mining Engineering and Mineral Economics, in the Department Mineral Resources Engineering. - Reference Number: 2411WPH

The Montanuniversität Leoben is a modern teaching and research institution and offers excellent conditions for careers in scientific and non-scientific fields.

One vacant position for a full-time university assistant (m/f/d) at the Chair of Mining Engineering and Mineral Economics, in the Department Mineral Resources Engineering. Start from the earliest possible date in an employment contract limited to three years. 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.

Background:
Underground mining holds significant geomechanical risks, including roof collapses, rock bursts, and seismic activity, endangering workers. These hazards are a threat to safety and could potentially disrupt operations which leads to increase in extraction costs. Underground instability requires reconstruction and appropriate protection of the area, which determines interruptions in the mining process and an increase in the overall costs of mineral extraction. Monitoring systems are used to increase safety along with other preventive measures, modifying mining systems and improving the workings' support. Developing methods for a reliable assessment of the degree of geomechanical hazard in underground mines is necessary to ensure effective exploitation. Together with an industrial partner Montanuniversitaet Leoben are developing a novel and cost-effective method for assessing the integrity and effectiveness of a mines support system: the intelligent rock bolt.

Job description:
We are looking for a PhD researcher interested in further developing these intelligent rock bolts, i.e. transferring previous basic research and prototypes into an industrial scale product. The workplan comprises manufacturing of intelligent rock bolts, i.e. assembling the innovative sensor system, extensive testing of the individual components and checking whether they are fit for being installed in the harsh underground environment, as well as laboratory testing and calibration of the systems, and finally deployment in real mining scenarios. You will also be working on detailing this work plan, and evaluating the results, respectively defining the next steps within the project. Finally, you will design and coordinate the deployment with all industrial stakeholders.

What we are looking for / your background:
You hold a technical Master's Degree (e.g. in Electrical Engineering, Mechanical Engineering, Technical Physics, Materials Science and similar fields) with a background in manufacturing, product development or (mining) rock mechanics, and with an interest in sensor development and (printed) electronics. Additionally, you have a willingness to travel, show a self-reliant and independent working attitude, you have good interpersonal and communication skills in an inter-disciplinary team, and you are fluent in English (written and oral). German skills are an additional benefit.

What we offer:
You will be working within a young and motivated international team of researchers at Montanuniversität Leoben, one of Europe`s top technical universities related to raw materials. In this project, you will be working on an interdisciplinary state of the art development close to the heartbeat of the mining industry. Additionally, personal skills in intercultural teamwork, project management, as well as confidence and capacity in producing and presenting scientific results to various audiences will be fostered.

Further contact and inquiries:
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Reference ID: 2411WPH
End of Application: 12.12.2024

The Montanuniversität 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.mont. Dr.-Ing. E.h. Dr.h.c. Peter Moser

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