

199. Job Advertisement: University professor for Ferrous Metallurgy

Advertisement for a position at the Montanuniversität Leoben, Austria

The position of a full University professor
for the field
Ferrous Metallurgy
pursuant to § 98 UG

at the Department of Metallurgy is to be filled as a permanent employment contract under private law with the Montanuniversität Leoben per the Salaried Employees Act (Angestelltengesetz) with full employment at the earliest possible time.

We are looking for a personality of outstanding international scientific excellence representing the subject of Ferrous Metallurgy in research and teaching.

“**Ferrous Metallurgy**” covers the whole circular economy of iron- and steelmaking, including the extraction of iron from primary and secondary raw materials, the refining and processing of demanding steel and the recycling of waste and scrap to valuable secondary raw materials. In research and teaching, the “Chair of Ferrous Metallurgy” at the Montanuniversität Leoben addresses, in particular, the de-carbonization of metallurgical processes

- by the development of alternative – also hydrogen-based – reduction technologies and steelmaking processes,
- by the further development of bridging technologies, such as electric steelmaking based on a modified raw material mix,
- by investigating the consequence of these new or modified production processes for secondary metallurgy, casting, further processing and final product properties
- and finally, the closing of material cycles and the recycling of waste materials.

The continuously increasing quality demands on advanced steel grades and the consequences for steel production processes, ladle treatment, steel cleanliness, casting and further processing are investigated by classical research approaches: Unique experimental simulation techniques, highly sophisticated chemical analysis methods, computational thermodynamics including thermodynamic modelling of metallurgical processes and the synthesis of physical modelling and data-driven approaches in hybrid modelling of processes.

In **teaching**, the courses, seminars and labs cover the chemical and physical fundamentals of iron- and steelmaking, the process technology of steelmaking and steel processing, and the material technology of conventional and high-alloyed steel grades. Course languages are German and English. The advertised position is in charge of supervising Bachelor-thesis, Master-thesis and PhDs.

The **requirements for employment** are a domestic or equivalent foreign university degree appropriate to the position, a doctorate and habilitation relevant for ferrous metallurgy or academic qualification of equal value. Further requirements are the pedagogical and didactic aptitude, including new methods in teaching, managing capabilities, and excellent language skills in German and English.

Experience in acquiring and managing funded research projects on a national and international level with scientific and industrial cooperation partners is of the highest importance.

In addition to a high level of personal motivation to achieve scientific excellence in research and teaching, we expect a responsible approach to work and the ability to collaborate in research teams and inspire colleagues and students. We expect pleasure in working with people in an interdisciplinary and internationally oriented environment, as well as scientific integrity and the ability to solve problems.

We offer you a varied and independent job. You can expect a team-oriented working atmosphere and ample opportunities for further training and development. The Montanuniversität Leoben promotes career paths and offers excellent conditions for social diversity in a contemporary working environment.

The classification and remuneration are per the collective agreement of the universities in the application group A1. In this classification, the monthly salary according to the collective agreement for full-time employment is € 5437,70 gross (14 times per year). In case of appropriate qualifications, a higher salary is subject to the appointment negotiations.

The Montanuniversität Leoben aims to increase the proportion of women and, therefore, explicitly invites qualified women to apply. In the case of equal qualifications, women are given priority.

The following documents must be provided in English:

- Letter of motivation.
- Comprehensive curriculum vitae (including ORCID number).
- Complete list of publications, including citation statistics.
- Enclose the five most important publications with significant participation, explaining the selection of these publications.
- Proof of the stated employment requirements.
- Presentation of previous research and teaching activities.
- Listing of projects acquired and documentation of selected relevant projects.
- Presentation of the research concept about the planned work at the Montanuniversität Leoben.
- Presentation of the planned teaching concept about teaching at the Montanuniversität Leoben.
- Presentation of the planned collaboration within the Montanuniversität Leoben.

The documents have to be sent in electronic form by September 30th 2022 to the Rector of the Montanuniversität Leoben, Univ.-Prof. Dipl.-Ing. Dr.techn. Dr.h.c. Wilfried Eichlseder, Franz-Josef-Straße 18, A-8700 Leoben, Austria.

Please upload your documents as a zip-file with the filename "MUL-EISTA-first-name-last-name.zip" under the following link: <https://oc.unileoben.ac.at/index.php/s/9pK7mWudXPxSQ2c>

For further information, please get in touch with the chairman of the appointment committee, Univ.-Prof. Dr. Harald Raupenstrauch, Franz-Josef-Straße 18, A-8700 Leoben, Österreich, Tel.: +43-3842-402-5800, e-mail: harald.raupenstrauch@unileoben.ac.at.

The Rector:

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

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