

184. Job Advertisement: University professor for Power Electronics - Extension of the closing date for application

At Montanuniversität Leoben, Austria, the position of a

University Professor

for the subject area of

Power Electronics

pursuant to § 98 of the Austrian University Act (UG) 2002 is to be filled as early possible as of October 1, 2022, in the form of an unlimited employment contract under public law in accordance with the Salaried Employees Act, on a full-time employment basis.

At Montanuniversität Leoben, researchers and students focus in the main topics of 'smart materials', 'advanced resources' and 'sustainable processes' to provide sustainable solutions for the world of tomorrow – according to our motto: Where research meets the future!

The newly established professorship for **power electronics** offers a creative environment in the intersection of the existing subjects such as energy system technology and material science as well as engineering fundamentals. We are seeking a candidate of international scientific reputation, who will promote the subject area of power electronics in research and teaching.

Undergraduate and graduate lectures in basic electrical engineering as well as additional courses from the subject to be filled with a focus on the study program 'Energy Engineering' at Montanuniversität are to be held in German and English. The **teaching duties** include the supervision of bachelor and master theses.

The preferred **research specialization** of the new professor shall be in the area of power electronics for energy technology- and/or energy system applications. Potential research profiles which offer cooperation to established scientific fields lie among others in the following areas:

- System integration of power electronics in energy generation, transformation and transmission
- Digital power management
- Modelling, simulation, characterization and development of power electronic components, circuits and systems
- System aspects of power electronics such as stability, efficiency and mitigation of harmonics, electromagnetic compatibility (EMC)
- Reliable and smart power electronics (e.g. design for reliability)

The **requirements for employment** are a university degree and a doctorate in a relevant field as well as a habilitation or a scientific qualification of equal value, e.g. through publications and university teaching in the field of power electronics. Further prerequisites are pedagogical and didactical skills including experience in the use of modern teaching methods and leadership qualities.

Experience in acquiring and conducting **research projects** with national and international scientific cooperation partners as well as the ability to cooperate with industry is of high importance. Interdisciplinary cooperation with colleagues at the Montanuniversität Leoben is expected as well.

Aside from a high personal motivation to achieve excellence in research and education we expect a responsible work approach as well as the ability to cooperate in research teams and to inspire peers as well as students. Enthusiasm to work in an interdisciplinary and internationally oriented environment, scientific integrity and problem-solving competence are expected.

The position promises a varied and self-reliant occupation. The applicant can expect a team-oriented working atmosphere as well as extensive opportunities for further training and development. The university promotes career paths and offers excellent conditions for social diversity in a contemporary work environment.

The classification and remuneration are based on the collective agreement of the universities in the application group A1. In this classification the gross monthly salary for full-time employment is Euro 5,437,70 (14 x per year). Provided appropriate qualification, a higher salary is subject to the appointment negotiations.

Montanuniversität Leoben is committed to increasing the proportion of women and expressly encourages qualified women to apply. In the case of equal qualification among applicants, women shall be given preference.

Applications must include the following documents in English:

- A motivation letter
- A comprehensive curriculum vitae
- The five most important publications with significant contributions of the applicant. The motivation for this selection should be provided as well (scientific/technical pioneering work, citations, industrial relevance)
- A complete list of publications
- Evidence of the listed employment requirements
- A list of projects raised by the applicant along with a brief description of selected projects
- A concept regarding future research activities at the Montanuniversität Leoben
- A concept regarding future teaching activities at the Montanuniversität Leoben. In case of non-German speaking applicants, a concept for assurance of German as teaching language at bachelor level is expected
- Outline of the planned networking at Montanuniversität Leoben

Applicants are requested to submit their documents electronically by August 31, 2022 to the Rector of the Montanuniversität Leoben, Univ.-Prof. Dipl.-Ing. Dr.techn. Dr.h.c. Wilfried Eichlseder, Franz-Josef- Straße 18, 8700 Leoben, Austria. To this end, the files should be compressed into a zip-archive with the filename „MUL-BKLE-Vorname-Nachname.zip“ and uploaded using the following link:

<https://oc.unileoben.ac.at/index.php/s/vtrO9KifBnJ4Bod>

Additional information can be obtained from the Head of the Appointment Committee, Univ.-Prof. Dr. Holger Ott, Franz-Josef-Straße 18, 8700 Leoben, Austria, phone: +43-3842-402-3000, e-mail: holger.ott@unileoben.ac.at, URL: <http://www.unileoben.ac.at>.

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

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