Mitteilungsblatt
der Montanuniversität Leoben

Montanuniversität Leoben

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36. Job Advertisement – extension of the application deadline – The Chair of Physical Metallurgy in the Department of Material Science has a position for a full-time Project Researcher (m/f/d) – Reference number: 2610WPC

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38. Job Advertisement – extension of the application deadline – The Chair of Physical Metallurgy in the Department of Material Science has a position for a full-time Project Researcher (m/f/d) – Reference number: 2610WPE

36. Job Advertisement – extension of the application deadline – The Chair of Physical Metallurgy in the Department of Material Science has a position for a full-time Project Researcher (m/f/d) – Reference number: 2610WPC

As a modern university with a strong focus on research and teaching, the Montanuniversität Leoben (Technical University of Leoben) offers outstanding opportunities for career advancement in both scientific and non-scientific domains.

The Chair of Physical Metallurgy in the Department of Material Science has a position for a full-time Project Researcher (m/f/d).

Salary Group B1 according to the UNI-KV, monthly minimum salary excl. Szlg.: € 3.776,10 for 40 hours per week (14x per year), actual classification is according to previous relevant experience.

Date of expected start of employment: **01.01.2027**
Term of employment: **3 years**
Hours of employment per week: **40 hours**

Responsibilities: As part of a doctoral dissertation in the research group of Computational Materials Science, atomistic simulations are being conducted to investigate the chemical vapor deposition of silicon carbide and gallium nitride. The research employs simulations based on molecular dynamics, Monte Carlo, and density functional theory, with a particular focus on machine learning methods for the development of interatomic potentials.

Employment requirements:
- Master degree in physics, materials science, mathematics or chemistry
- Structured working method and strong analytical skills
- Master thesis of high scientific quality
- Fluent English skills (written and oral)
- Excellent skills in the presentation of scientific contents
- Good communication skills and team working skills
- Willingness for participation in the preparation of scientific articles and proposals

- Willingness to write a PhD thesis

Desirable additional qualifications:
- Experience with atomistic simulations using LAMMPS or VASP
- Experience with interatomic potentials, particularly machine-learned interatomic potentials
- Programming skills in Python, MATLAB, Mathematica, C++, or Fortran
- Experience with vapor deposition methods or crystal growth
- Fluency in spoken and written German
- Additional foreign languages

We offer numerous benefits, including:
- Convenient public transport connections (train and bus access)
- Family-friendly work environment and good work-life balance
- Access to occupational health services
- Health promotion initiatives and annual health day
- Comprehensive university sports and fitness programs
- Employee discounts at selected shops and services
- Language courses and support for international staff

Reference ID: 2610WPC
End of Application: 10.12.2026

The Montanuniversität Leoben (Technical University of 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

37. Job Advertisement – extension of the application deadline – The Chair of Physical Metallurgy in the Department of Material Science has a position for a full-time Project Researcher (m/f/d) – Reference number: 2610WPD

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Date of expected start of employment: **01.01.2027**
Term of employment: **3 years**
Hours of employment per week: **40 hours**

Responsibilities: The manufacturing process for transistors used in power electronics based on silicon carbide (SiC) shall be investigated as part of a doctoral dissertation in the Research Group of Computational Materials Science. In particular, multiphysics simulations of the chemical vapor deposition of SiC are being conducted to gain a fundamental understanding of the epitaxial process and the relevant crystal defects. A key aspect is the close integration of the simulations with experimental investigations using machine learning methods.

Employment requirements:
- Master degree in physics, materials science, mathematics or chemistry
- Structured working method and strong analytical skills
- Master thesis of high scientific quality
- Fluent English skills (written and oral)
- Excellent skills in the presentation of scientific contents
- Good communication skills and team working skills
- Willingness for participation in the preparation of scientific articles and proposals
- Willingness to write a PhD thesis

Desirable additional qualifications:
- Experience with multiphysics simulation software such as ANSYS or COMSOL
- Programming experience in C++, Fortran, Python, Matlab or Mathematica
- Experience in usage of Unix-based operating systems
- Experience in crystal growth or epitaxial growth of semiconductor thin films
- Fluent in German (written and oral)
- Additional languages

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Date of expected start of employment: 01.01.2027
Term of employment: 3 years
Hours of employment per week: 40 hours

Responsibilities: The manufacturing process for transistors used in power electronics based on gallium nitride (GaN) shall be investigated as part of a doctoral dissertation in the research group of Computational Materials Science. In particular, multiphysics simulations of the chemical vapor deposition of GaN are being conducted to gain a fundamental understanding of the epitaxial process and the relevant crystal defects. A key aspect is the close integration of the simulations with experimental investigations using machine learning methods.

Employment requirements:
- Master degree in physics, materials science, mathematics or chemistry
- Structured working method and strong analytical skills
- Master thesis of high scientific quality
- Fluent English skills (written and oral)
- Excellent skills in the presentation of scientific contents
- Good communication skills and team working skills
- Willingness for participation in the preparation of scientific articles and proposals
- Willingness to write a PhD thesis

Desirable additional qualifications:
- Experience with multiphysics simulation software such as ANSYS or COMSOL
- Programming experience in C++, Fortran, Python, Matlab or Mathematica
- Experience in usage of Unix-based operating systems
- Experience in crystal growth or epitaxial growth of semiconductor thin films
- Fluent in German (written and oral)
- Additional languages

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The Rector:
Univ.-Prof. Dipl.-Ing. Dr.mont. Dr.-Ing. E.h. Dr.h.c. mult. Peter Moser

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