

145. **Job Advertisement – Job for a full-time scientific project assistant at the Chair of Energy Network Technology in the Department of Environmental and Energy Process Engineering - Reference ID: 2401WPC**
 146. **Job Advertisement – One vacant position for a full-time Project Researcher (m/f/d) at the Chair of Nonferrous Metallurgy, in the Department of Metallurgy - Reference ID: 2401WPD**
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 150. **Job Advertisement – One vacant position for a full-time Senior Scientist (m/f/d) at the Chair of Chemistry of Polymeric Materials at the Department Polymer Engineering and Science - Reference ID: 2402WPG**
 151. **Job Advertisement – One vacant position for a full-time university assistant (m/f/d) at the Chair of Chemistry of Polymeric Materials at the Department Polymer Engineering and Science - Reference ID: 2402WPH**
 152. **Job Advertisement – One vacant position for a full-time university assistant (m/f/d) at the Chair of Processing of Composites and Design for Recycling at the Department Polymer Engineering and Science - Reference ID: 2402WPI**
 153. **Job Advertisement – One vacant position for a full-time university assistant (m/f/d) at the Chair of Materials Physics, in the Department Materials Science - Reference ID: 2402WPK**
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145. Job Advertisement – Job for a full-time scientific project assistant at the Chair of Energy Network Technology in the Department of Environmental and Energy Process Engineering - Reference ID: 2401WPC

Job for a full-time scientific project assistant at the Chair of Energy Network Technology in the Department of Environmental and Energy Process Engineering as of the earliest possible date for a fixed-term employment contract of 3 years. Salary group B1 according to Uni-KV, monthly minimum salary excl. benefits: € 3.578,80 for 40 hours per week (14 x per year), the actual classification is based on any creditable job-specific previous experience.

Requirements

- Completed Master's or Diploma degree in the field of "Energy Technology" or "Process Engineering" or an equivalent qualification.
- Excellent knowledge of German and English

Desirable additional qualifications:

Loyalty, reliability, ability to work in a team and under pressure, enjoy working on scientific issues related to the energy transition.

Background:

The industrial sector is responsible for around one third of total greenhouse gas emissions in Austria. The decarbonization of industrial energy systems is therefore of particular importance for achieving climate neutrality.

Tasks:

You will work in the NEFI+ project in energy system development and work on issues relating to the transformation of industry towards climate neutrality in the context of national and international climate and energy targets. In addition to investigating the development of overall energy requirements and GHG emissions, this also includes the renewable capacity to be installed and the necessary infrastructural requirements. In terms of an integrated energy system approach, particular attention will be paid to the use of possible industrial flexibility and changes to industrial processes based on innovative technologies.

For this future-relevant and innovative task, you will be integrated into a motivated team of experts who are already working on the development of scenarios and roadmaps for the development of the Austrian energy system in numerous publications.

In addition to the acquisition and implementation of research projects, your tasks will also include general work within the framework of the chair's organization, such as collaboration in teaching and the supervision of academic papers. You will also have the opportunity to write your dissertation as part of your employment.

The Montanuniversitaet Leoben aims to increase the proportion of women and therefore expressly encourages qualified women to apply. Women with the same qualifications as the most suitable competitor will be given priority.

Reference ID: 2401WPC

End of Application: 14.03.2024

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>

146. Job Advertisement – One vacant position for a full-time Project Researcher (m/f/d) at the Chair of Nonferrous Metallurgy, in the Department of Metallurgy - Reference ID: 2401WPD

One vacant position for a full-time Project Researcher (m/f/d) at the Chair of Nonferrous Metallurgy, in the Department of Metallurgy - Start from the earliest possible date in an employment contract limited to three year. 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.

In order to counteract the progression of climate change and its effects on the ecosystem, it is necessary to minimise CO₂ emissions also in the metallurgical industry. The utilization of coke produced out of biomass is a possibility to improve the CO₂ footprint of carbon-based metallurgical processes. In opposite to other alternative reducing agents such as hydrogen, the use of biocoke can be realized in a very short period of time, as it can be introduced in existing processes without the need of major changes. However, to allow this, the biocoke has to fulfil specific requirements. Based on previous work, this research topic will be upscaled to industrial scale.

Your tasks:

- Make biomass fit for its application in nonferrous metallurgy
- Evaluation of woody biomass for its applicability for biocoke production
- Characterisation of produced biocoke
- Evaluation of requirements in different metallurgical processes and differences to currently used carbon carriers
- Optimization of properties, such as reactivity and porosity
- Production of optimized biocokes in a new pyrolysis unit (1000 kg/day scale)
- Planning and carrying out of pyrometallurgical trials from lab scale up to industrial scale in cooperation with our industrial partners

What you bring:

- Completed studies in metallurgy, process engineering, chemistry or a comparable field (master's degree or diploma in engineering)
- Ability to work in a team, interdisciplinary way of thinking, self-motivation and reliability

What we offer:

- Full-time position over three years with the option of a doctorate
- Practice-orientated working environment with close contact to industry
- Freedom to develop and shape the research focus
- Full access to all services offered by the university, for example the University Sports Institute

Reference ID: 2401WPD

End of Application: 14.03.2024

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147. Job Advertisement – One vacant position for a full-time Senior Scientist (m/f/d) at the Chair of Cyber Physical Systems at the Department Product Engineering - Reference ID: 2402WPA

One vacant position for a full-time Senior Scientist (m/f/d) at the Chair of Cyber Physical Systems at the Department Product Engineering. Start from the beginning of April 2024 in an employment relationship limited to one year; with the option of extension into a permanent employment relationship. Salary Group B1 according to the Uni-KV, monthly minimum salary excl. Szlg.: € 4.752,30 for 40 hours per week (14 x per year), actual classification is according to previous relevant experience.

Job description:

The group's research topics are autonomous systems, machine and deep learning, embedded smart sensing systems and computational models. The senior researcher will work on one of these topics (or combinations of them), where a focus will be developed jointly based on the experience of the candidate. The researcher will be further engaged in teaching (e.g., student supervision), project management and funding applications.

What we offer:

We offer a research position in fascinating fields with the opportunity to develop own ideas and implement them independently. Further, the researcher is part of a young and newly formed team, learns and assumes leadership responsibilities with coaching sessions, and receives targeted career guidance for a successful scientific career.

Requirements:

We offer a permanent research position with personnel responsibility in fascinating fields with the opportunity to develop own ideas, implement them independently and to supervise doctoral theses on your topics. Further, the researcher is part of a young and newly formed team, will acquire or consolidate leadership skills, and will receive targeted career guidance for a successful scientific career.

Desired additional qualifications:

We offer a permanent research position with personnel responsibility in fascinating fields with the opportunity to develop own ideas, implement them independently and to supervise doctoral theses on your topics. Further, the researcher is part of a young and newly formed team, will acquire or consolidate leadership skills, and will receive targeted career guidance for a successful scientific career.

Application materials:

A complete application includes a single PDF file that includes (1) detailed curriculum vitae, (2) a letter of motivation with a reference to the desired field of research and teaching from the above-mentioned topics, (3) two letters of recommendation, (4) the PhD thesis as PDF file, (5) all relevant certificates of prior education for bachelor's, master's and PhD studies, (6) name, email and phone number of two additional references to contact, (7) previously published or submitted publications or patents as links or PDF files.

Reference ID: 2402WPA

End of Application: 14.03.2024

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148. Job Advertisement – One vacant position for a full-time university assistant (m/f/d) at the Chair of Energy Network Technology at the Department of Environmental and Energy Process Engineering_ - Reference ID: 2402WPB

One vacant position for a full-time university assistant (m/f/d) at the Chair of Energy Network Technology at the Department of Environmental and Energy Process Engineering. Start from April 2024 in an employment contract limited to one year. 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.

Requirements

- Completed Master's or Diploma degree in the field of "Energy Technology", "Process Engineering", "Mechanical Engineering" or "Electrical Engineering" or an equivalent qualification.
- Excellent language skills in German and English.

Desirable additional qualifications

Loyalty, reliability, ability to work in a team and ability to work under pressure, Interest in working on scientific issues questions

Tasks

- Handling research work on the operational optimization of industrial energy systems. As part of this work, there is the possibility of writing a dissertation.
- Project management tasks
- Collaboration in university teaching. (Co-)supervision of scientific work.
- Support in the acquisition, application and implementation of research projects.
- Support in university administration and administrative work.

Reference ID: 2402WPB

End of Application: 14.03.2024

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149. Job Advertisement – One vacant position for a full-time university assistant (m/f/d) at the Chair of Economic- and Business Management at the Department Economic and Business Management - Reference ID: 2402WPC

One vacant position for a full-time university assistant (m/f/d) at the Chair of Economic- and Business Management at the Department Economic and Business Management. Start from the earliest possible date in an employment contract limited to four year. 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.

Main focus: Energy Management / Sustainability

Responsibilities:

- Joint development of the subject „energy management“ with a special focus on sustainability aspects
- Energy management systems and sustainability management systems
- Specific management tools of resource economics
- Planning, coordination and joint execution of research applications and projects
- Joint as well as independent teaching
- Supervision of student research projects

Requirements:

- Master degree (business engineering, energy economics or engineering)
- Good knowledge of economics and business administration topics
- Interest in topics at the interface of energy management, sustainability and economics
- Convincing writing and oral communication skills in German language
- Self-responsibility, organization skills, team spirit, high reliability (especially in cooperation with industrial partners) and very good communication skills
- Willingness to travel

Preferred additional requirements:

- Experience with management systems (especially with ISO 14001, ISO 50001)
- Foreign language (very good writing and oral communication skills in English)
- Experience with the software tool „Umberto“ for lifecycle assessments

We offer

a position with highly interesting and varied tasks including the possibility to work on innovative research projects. A team oriented business environment, close cooperation with industrial business partners and teaching assignments allow for superior development of professional and personal skills.

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150. Job Advertisement – One vacant position for a full-time Senior Scientist (m/f/d) at the Chair of Chemistry of Polymeric Materials at the Department Polymer Engineering and Science - Reference ID: 2402WPG

One vacant position for a full-time Senior Scientist (m/f/d) at the Chair of Chemistry of Polymeric Materials at the Department Polymer Engineering and Science. Start from the beginning of April 2024 in a permanent employment contract. Salary Group B1 according to the Uni-KV, monthly minimum salary excl. Szlg.: € 4.752,30 for 40 hours per week (14 x per year).

Prerequisites:

- Completed studies (MSc or Dipl.-Ing.) in chemistry, technical chemistry, materials science or polymer technology
- Relevant doctorate (PhD)
- Several years of experience in the field of additive manufacturing of multi-material systems
- Willingness to publish and habilitate
- Proven experience in the development and application of various characterization methods
- German and English language skills (level at least B2)
- Willingness to supervise students in Bachelor's, Master's and doctoral programs
- Good communication skills with employees at the institute, industry partners and customers
- Very good organizational skills
- Very good IT skills and familiarity with common office software
- Willingness to participate in teaching
- High motivation, ability to work in a team

Desirable additional qualifications:

- Relevant software knowledge (CAD programs; programs for data preparation and print job preparation)
- Experience in the development and adaptation of various test setups
- Didactic education

On offer:

- Work in a young, motivated team
- Varied range of tasks and involvement in shaping the research topic
- Opportunity for training and further education
- Good accessibility of the office by train and bus
- Flexible working hours
- Good compatibility of family and career
- Occupational medical services incl. MUL health program
- University sports program
- Employee bonuses in the form of discounts at partner companies
- Language support

Reference ID: 2402WPG

End of Application: 14.03.2024

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151. Job Advertisement – One vacant position for a full-time university assistant (m/f/d) at the Chair of Chemistry of Polymeric Materials at the Department Polymer Engineering and Science - Reference ID: 2402WPH

One vacant position for a full-time university assistant (m/f/d) at the Chair of Chemistry of Polymeric Materials at the Department Polymer Engineering and Science. Start from the earliest possible date in an employment contract limited to three year. 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.

Prerequisites:

- Completed studies (MSc or Dipl.-Ing.) in chemistry or technical chemistry, materials science or polymer technology
- Willingness and ability to carry out scientific work in research, including associated
- Publication activity in English
- Willingness to develop and write a dissertation
- Interest in additive manufacturing processes and a high willingness for further education
- High motivation, ability to work in a team
- Experienced with computers including common office software

Desirable additional qualifications:

- Education or experience in the field of polymer chemistry
- Education or experience in the field of additive manufacturing

On offer:

- Work in a young, motivated team
- Opportunity for training and further education
- Good accessibility of the office by train and bus
- Flexible working hours
- Good compatibility of family and career
- Occupational medical services incl. MUL health program
- University sports program
- Employee bonuses in the form of discounts at partner companies
- Language support

Reference ID: 2402WPH

End of Application: 14.03.2024

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152. Job Advertisement – One vacant position for a full-time university assistant (m/f/d) at the Chair of Processing of Composites and Design for Recycling at the Department Polymer Engineering and Science - Reference ID: 2402WPI

One vacant position for a full-time university assistant (m/f/d) at the Chair of Processing of Composites and Design for Recycling at the Department Polymer Engineering and Science. Start from the earliest possible date in an employment contract limited to four year.

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.

Requirements:

Completed a study program (U/TU) with above-average degree in one of the fields of material science, polymer engineering or mechanical engineering. Aiming at a PhD. Fluent English in writing and speaking. For applicants from abroad at least basic knowledge in German language and willingness to improve this knowledge.

Activity profile:

You'll undertake highly self-organized scientific work in the field of processing of fiber-reinforced polymer composites, in particular for automated winding and/or placement technologies. Your responsibilities include the planning, evaluation and coordination of corresponding scientific theoretical and experimental work. In addition, general work load in the research group, e.g. technical infrastructure responsibility, and contribution to educational tasks are part of your responsibility.

Qualification profile:

You are educated in material science, polymers and fiber-reinforced polymer composites, automation technology and/or mechanical engineering. In addition, you are highly interested in processing technology, you are able to identify research tasks as well as to develop solution strategies. You are familiar with the PC and standard office tools. Interest to prepare a dissertation and to participate in projects with both basic and application-oriented topics is requested as well.

Desired skills:

High motivation, initiative and teamwork abilities as well as good communication skills with staff and customers together with organizational skills.

Reference ID: 2402WPI

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153. Job Advertisement – One vacant position for a full-time university assistant (m/f/d) at the Chair of Materials Physics, in the Department Materials Science - Reference ID: 2402WPK

One vacant position for a full-time university assistant (m/f/d) at the Chair of Materials Physics, in the Department Materials Science. Start from probably 02.05.2024 in an employment contract limited to four year. Salary Group B1 according to the Uni-KV, monthly minimum salary excl. Szlg.: € 4.752,30 for 40 hours per week (14 x per year).

Requirements:

Completed technical/natural scientific studies with a doctorate in the fields of materials science, physics or a comparable scientific qualification, very good German and English speaking and writing performance.

Job Profile:

- Establishing a research group for correlative micromechanical characterization of modern multimaterial systems with respect to failure and defect accumulation; Combination of various electron microscopy techniques in conjunction with local thermal/mechanical loading; Bridging the gap between correlative experimental data and numerical modelling/simulations; Development of novel testing methods for direct analysis of microstructural changes upon external stimuli.
- Commitment to research directed teaching
- Experience in supervision and co-supervision of scientific work (Bachelor's, Master's and Doctoral students)
- Willingness and motivation for interdisciplinary teamwork, experience in project acquisition and project management

Desired additional qualifications:

- Profound knowledge in the application of micromechanical testing techniques including dynamic methods in the areas of fracture and/or fatigue mechanics.
- Hands-on experience in micromechanical sample preparation techniques, e.g. focused ion beam, femtosecond laser ablation, lithography
- Experience with scanning- and transmission electron microscopy in combination with *in situ* techniques (mechanical/thermal load, electrical biasing or chemical reactions).
- Experience with numerical methods/simulations for data analysis of experiments with regards to statistical significance and correlative data channels (mechanical/thermal data, digital image correlation)
- Identification of suitable combinations of experiments and simulations for the lifetime assessment of small-scale components in information- or energy technology.

Reference ID: 2402WPK

End of Application: 14.03.2024

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Der Rektor:

Univ.-Prof. Dipl.-Ing. Dr.mont. Dr.-Ing. E.h. Peter Moser

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