



The Department of Polymer Engineering and Science at the Montanuniversität Leoben is an internationally recognized research institution that has been working in the field of polymer engineering and science for over 50 years. Vitally important for this excellent reputation is the strong cooperation with international companies. Special attention is paid to collaborative projects ranging from local projects to international EU-projects.

## We are looking for a full-time University Assistant

at the Chair Materials Science and Testing of Polymers at the earliest possible date in a 3 year fixed-term employment contract.

Compensation according to Salary Group B1 of the Austrian labour agreement, monthly minimum excl. supplements € 3.058,60 for 40 hours per week (14 times a year), actual classification is according to previous relevant experience.

### **Project description**

Latent heat storage systems represent a powerful and innovative variant for heat storage and temperature regulation. Compared to conventional, sensible heat storage systems, these have up to ten times higher storage densities. These systems are also suitable for the efficient storage of heat from renewable energy sources or industrial waste heat or for buffering temperature peaks as well as for passive air conditioning in buildings and solar technology. In that case, latent heat storage technology is already making a significant contribution to saving resources and to energy self-sufficiency. The associated contribution to a sustainable energy future can be further expanded through innovative developments. Therefore, the area of the storage materials used has to be expanded. New developed systems have to increase the storage efficiency and make the latent heat storage system more flexible in terms of the possible storage temperature, thus opening up new areas of application.

### **Requirements**

Master's degree in polymer engineering, materials science, technical chemistry, energy technology or a related technical field of study with good knowledge in the areas of morphology and thermodynamics of polymers as well as experience in processing polymers.

### **Job Profile**

- Preparation of phase change materials (PCM) with different kinds of modifications.
- Characterisation of structural and thermal properties of different PCM
- Characterisation of long term stability of prepared material systems
- Commitment to cooperation and assistance in administrative tasks, teaching and research.

### **Desirable Qualifications**

- Experience in the fields of material physics, thermal analysis of polymers as well as structural analysis of polymers.
- Motivation, a high degree of initiative, teamwork and organisational skills as well as the willingness to write scientific publications and to develop a dissertation within the field of processing-structure-property relationships of thermoplastic multiphase systems
- Initiative and responsible behaviour

**Reference number: 2209WPI**

**For your application, please use our online application form on our homepage:**

**<https://www.unileoben.ac.at/jobs>**