

Open PHD position

Investigation of the recrystallization behavior of Al alloys using *in situ* methods in electron microscopy

University assistant for 4 years, 20 hours/week at the Institute of Electron Microscopy and Nanoanalysis, Graz University of Technology.

Content:

Within the PhD thesis a comprehensive understanding of the recrystallization behavior of Al alloys shall be established. For this purpose, *in situ* heating experiments will be performed both in the scanning electron microscope (SEM) and in the transmission electron microscope (TEM). In addition, *in situ* backscattered electron diffraction (EBSD) will be used with the aim to establish a correlation between precipitation and recrystallization kinetics.

Tasks:

- Characterization of metallic materials
- Holding of lectures
- Support of students in the field of electron microscopy
- Publication and presentation activities
- Providing SEM equipment

Requirements:

- Degree or diploma in Technical Physics, Chemistry, or Materials Science.

Preferred additional qualification:

- Applicants should have good knowledge in experimental physical methods, especially in the field of electron microscopy, and interest in writing a PhD thesis.
- The ability to work in an international team and very good English language skills are required.

Payment: According to collective agreement, remuneration group B1.

Contact details for your **application** can be found in the TU Graz Newsletter, www.mibla.tugraz.at, dated 9/21/2022, reference number: 5190/22/012.

The application deadline is 10/5/2022.