

VACANCY:

A full-time Senior Scientist (m / f / d) at the Department of General, Analytical and Physical Chemistry at the earliest possible point in time in an employment contract limited to 3 years.

Salary group B1 according to Uni-KV, monthly Minimum wage excl. surcharge: € 3,945.90 for 40 hours per week (14 times a year) - the actual classification is based on creditable job-specific previous experience.

Topic: Nickel based alloys and highly alloyed austenites can be embrittled by hydrogen uptake limiting some applications. Different processing routes resulting in different microstructures shall be evaluated with respect to their resistance to hydrogen embrittlement (solution annealed, cold worked, precipitation hardened, 3D printed, ...). Mechanisms and root causes of damage shall be identified. Tasks are:

- High resolution characterisation of microstructure of materials
- Performance of stress corrosion cracking tests, hydrogen charging, permeation tests, thermal desorption spectroscopy (TDS) and other high resolution methods, characterisation of passive layers

You will work in a team and a high level of motivation and responsibility is required. Intensive publication activity is obligatory. A research proposal shall be written and submitted. This can be used for further self-financing. Willingness for research visits of the duration between weeks and a few months to other research institutions is expected.

Necessary Qualification: Technical study with a Doctorate, knowledge in corrosion of metallic materials, excellent knowledge of English language (written and orally)

Additional Qualifications: Peer reviewed publications in the field of corrosion, knowledge in electrochemistry, permeation testing, TDS, HR-SEM, ToF-SIMS

Reference ID: 2014WPO

Application deadline: 2021-05-15

We strive to recruit individuals who will further enhance our diversity. Qualified international candidates are strongly encouraged to apply.

The Montanuniversität 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 form on the homepage: <https://www.unileoben.ac.at/jobs>