



Lehrstuhl für Allgemeine und Analytische Chemie

Leitung: Univ.-Prof. Dipl.-Ing. Dr. Thomas Prohaska

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VACANCY:

A full-time university assistant (m / f / d) at the Chair of General and Analytical Chemistry in 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: € 2,971.50 for 40 hours per week (14 times a year) - the actual classification is based on the creditable job-specific previous experience.

We are looking for a researcher with high personal motivation for scientific excellence and integrity, with the ability to solve problems and enjoy working together in a research team in an interdisciplinary and internationally oriented environment.

Requirements: Completed degree in natural sciences, with a focus on analytical chemistry.

Additional qualifications: Practical experience in laboratory work; Experience with element analysis (e.g. : ICP-MS);

Responsibilities: We offer a challenging project work on the subject of "PyroChar - Carbon as value-product of methane pyrolysis during hydrogen production" as part of a dissertation. The work is embedded in a research network in an international project team. The pyrolysis of methane is a key development topic. The method has the potential to contribute to the production of hydrogen in large quantities. In addition to hydrogen, there is 3 times the mass of carbon (pyro-charcoal; pyro-char), the further use as a valuable material is an urgent issue. In addition to niche applications, areas of application that require large amounts of the recyclable material are of substantial importance. One of these areas of application is agriculture. In order to assess the theoretical potential of this approach, a detailed characterization of the pyro-charcoal produced in different ways is necessary.

The focus of the work is on a comprehensive characterization of the pyro-coal with regard to structure and chemical composition. Another essential point is the systematic investigation of the effect on soil properties to investigate the effects on soil function and to determine the carbon binding potentials.

We offer a varied and independent job. A team-oriented working atmosphere, intensive cooperation with project partners and options to teaching offer ideal professional and personal development opportunities. The Montanuniversität promotes career paths and offers excellent framework conditions for social diversity in a contemporary working environment. The Montanuniversität Leoben aims to increase the proportion of women and therefore expressly encourages qualified women to apply. Women will be given priority if they have the same qualifications as the most suitable competitor.

For your application, please use our online application form on the homepage: <https://www.unileoben.ac.at/jobs>. For more information, contact thomas.prohaska@unileoben.ac.at.

Reference number: 2104 WPL; Application deadline: May 15, 2021