

Postdoc position, Chemistry and Physics of Materials, PLUS, Salzburg, Austria: Materials Development for Energy Conversion and Storage

The project:

We are seeking a motivated Postdoc to work in the field of materials development for energy conversion and storage. We work on (aqueous) sodium and magnesium ion batteries with the aim to find sustainable chemistries for post-lithium-ion batteries. We use scalable solid state chemical syntheses to produce our materials and characterize them structurally and electrochemically. We work in modern well-equipped chemistry laboratories and use advanced characterization techniques such as operando XRD and TEM besides routine techniques (SEM, XRD, TEM, galvanostatic cycling, CVs etc.).

Your contribution:

You will be able to use the infrastructure provided by the Functional Materials Group of the Chemistry and Physics of Materials department to perform independent scientific research in addition to making scientific contributions to the existing projects on post-lithium-ion batteries. You will work in the field of solid-state chemical synthesis development and electrochemical and structural characterization of materials and interfaces, mainly in the application area of post-lithium-ion batteries. You will have an independent teaching load of four hours per week per semester and provide support in administrative tasks.

Qualifications:

PhD in chemistry, material science or in related technical or natural sciences

Additional qualifications: Experience in solid-state chemistry and solid-state and surface characterization techniques (i.e., XRD, TEM, SEM), experience in electrochemical characterization methods, specifically in the battery field, interest in sustainability related research

Personal skills: motivated, team-player, creative, enthusiastic about science

Languages: English, German

Salary: Annual gross income € 69 060 for a 40 h per week contract

Earliest start date: September 1st, 2025, contract ends latest on August 31st, 2028

Review of applications will begin on May 21st, 2025

Please send your application to bewerbung@plus.ac.at referring to job number **GZ A 0047/1-2025**

Your application should include:

- Curriculum vitae
- Cover letter explaining your motivation
- Credentials