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**Chair of Inorganic Active Materials for
Electrochemical Energy Storage
Prof. Dr. Matteo Bianchini**

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At the chair of Inorganic Active Materials for Electrochemical Energy Storage (Prof. Dr. Matteo Bianchini) the following position is available, starting in **September 2022** or soon thereafter:

Postdoctoral researcher
German salary scale TV-L E13,
funded by the European Research Council for the 4SBATT project

Topic: Development of thermo-kinetic phase diagrams based on ab initio computations and in situ x-ray diffraction

I am looking for an excellent postdoctoral researcher to integrate the team working on the ERC-funded project 4SBATT. The project aims at developing sustainable Na-based solid state batteries as post Li-ion technologies addressing the main issues related to the current Li-ion technology, i.e. safety, energy-density, cost and sustainability. 4SBATT is funded by the European research council for the period 2022-2027 with 1.8 M€. To reach its goals, the project aims to explore various chemical spaces in order to identify the most promising candidate materials to be used as electrodes and as electrolytes. Such exploration will be based on phase diagrams computed from ab initio simulations (density functional theory) to understand materials stability and enriched with experimental inputs to understand materials synthesizability; these inputs coming from in situ x-ray diffraction, carried out in our lab, will yield information related to kinetic aspects during the synthesis of materials. The postdoctoral position specifically deals with the computational aspects of the project. Hence PhD holders with a background in inorganic/physical chemistry, materials science or physics are particularly welcome to apply. However, strong a priori knowledge of quantum chemical methods (DFT) and ab initio computations is a must. Knowledge of batteries and electrochemistry is a plus. The initial contract is for 2 years with the possibility for further extension. I am striving to build a diverse and inclusive research group, hence open-minded and free-thinking individuals are welcome. The University of Bayreuth aims to increase the percentage of women and therefore explicitly encourages women to apply. Severely disabled persons are given preference in the case of equal suitability. For further information about the position, about 4SBATT or about the chair, please contact matteo.bianchini@uni-bayreuth.de or visit www.bianchini.uni-bayreuth.de. To apply, please send your CV and cover letter specific to this position to matteo.bianchini@uni-bayreuth.de.