Karlsruhe Institute of Technology

# PhD Position in Synthesis of Advanced Materials for Energy Storage Systems

**Job description**
You will develop novel advanced material structures for Li-ion batteries and post-lithium energy storage systems like Na- and the emerging K-ion batteries. Structural, morphological and chemical characterization of the materials will be performed by using ex-situ and in-situ techniques (SEM, XPS, XRD, EXAFS etc.). You will develop and optimize electrodes and electrochemical cells and conduct a complete electrochemical characterization of the synthesized materials. Your work will also involve the presentation of the results at national and international conferences and publication in peer-reviewed international journals. The working place is in Karlsruhe (KIT campus north and campus south).

**Personal qualification**
We are looking for a dynamic, serious, and motivated researcher with a Diploma or Master degree in Chemistry, Material Science or related discipline. The candidate is expected to have a background in material synthesis and/or electrochemistry and good communication skills. Fluent German and good knowledge of English are required.

**Organizational unit**
Helmholtz Institute Ulm for Electrochemical Energy Storage (HIU)

**Starting date:** as soon as possible

**Contract duration:** limited to 3 years

**Application up to:** 31.05.2017

**Contact person in line-management**
For further information, please contact Dr. Sonia Dsoke, Email: sonia.dsoke@kit.edu

**Application**
Complete applications should be sent by regular mail and email (in one PDF file) to

**Karlsruher Institut für Technolgie (KIT)**
**Institut für Angwandte Materialien - Energiespeichersysteme**
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