

Advertisement #4

Search for a Post-Doc Fellow to Work on Electrochemical Energy Storage

The broad discipline of the candidate – Chemistry/Chemical Engineering/Electrochemistry/Material Science and Engineering.

The specializations and competencies required – Electrochemical Energy Storage (EES)

Job Description – We aim to develop safe, cost-effective and durable electrochemical energy storage systems. Technically, the focus would be on the design and development of electrochemical energy storage devices (i.e. electrodes and electrolyte) and demonstration of their performance on a practical scale.

Job responsibility:

- Design, synthesis, and characterization of electrode materials and electrolytes
- Assembly of small scale (e.g., coin cells) and practical scale (e.g., pouch cells) electrochemical energy storage devices.
- Mentorship of Ph.D., M.Sc., and/or B.Sc. students
- Data analyses, interpretation and reporting

Desired Requirements:

Research background:

- Electrochemistry: electrochemical characterization and interpretation (e.g., CV, EIS, etc.), study of electrode/electrolyte interfaces, kinetics of electrochemical processes
- Engineering: preparation of electrode materials, slurry and electrodes for electrochemical energy devices.

In addition: excellent publication record in the field of required expertise, ability to develop and implement new research ideas, and to design and perform advanced experiments, excellent speaking, writing and communication skills.

E-mail enquiries prior to making an application are welcome, in which case contact Professor Zain H. Yamani (zhyamani@kfupm.edu.sa).