DESCRIPTION:

Seeking people with expertise in RF engineering, Susceptibility Imaging, and/or Electrical Property Mapping to complete our team working on in-situ and in operando NMR/MRI of batteries and electrochemical devices in the laboratory of Alexej Jerschow in the Chemistry Department of New York University (NYU). Expertise in Deep Learning would be beneficial as well. This position could be ideal for someone wishing to apply their MRI expertise outside of the medical field.

This work pioneers new technology for finding flaws in batteries and predicting battery life, which is critical for advancing electric vehicle and portable electronics technology.

Exemplary publications illustrating this work can be found here:

There is also an opportunity to be involved in other ongoing projects in the laboratory related to nuclear spin singlet state lifetimes and hyperpolarization. The lab is located in the newly renovated facilities of the Molecular Nanoscience Center at NYU’s Washington Square Campus in the heart of Manhattan. Further opportunities include the involvement in entrepreneurial activities around this technology.

Applicants should have a Ph.D in Physics, Chemistry, Engineering, or a related field, and should ideally have strong experience with RF engineering and NMR/MRI hardware and imaging methodology. Remuneration is competitive and commensurate with experience and will be based on New York University guidelines. Women and minorities are encouraged to apply.

CONTACT:

To be considered, the application has to be submitted via the following link: https://apply.interfolio.com/49748

Preliminary inquiries can be sent to E-mail: alexej.jerschow@nyu.edu
Alexej Jerschow
Department of Chemistry
100 Washington Square East
New York University
New York, NY 10003
https://wp.nyu.edu/jerschow/