

OPEN POSTDOC POSITION: Ewoldt Research Group, University of Illinois at Urbana-Champaign

A full-time post-doctoral researcher position is immediately available in the group of Prof. Randy H. Ewoldt at the University of Illinois at Urbana-Champaign (<http://ewoldt.mechanical.illinois.edu>).

The project will involve complex fluids for redox flow batteries, posing fundamental experimental and theoretical questions on how to design these fluids to balance properties of viscosity and non-Newtonian effects, conductivity, and energy density.

The successful candidate will collaborate extensively with other researchers in chemical synthesis, electrochemistry, and high-throughput testing. A background in rheology and conductivity measurement, complex fluid formulation, chemical wet bench skills, and structure-rheology modeling involving electric charge would be ideal. The candidate is expected to bring enthusiasm, deep thinking, broad curiosity, excellent communication skills, and creativity to the project.

This position is available immediately but could be delayed for the right candidate. This is anticipated to be a two-year position, with second year contingent on project performance and funding.

This position is supported by the Department of Energy (DOE) through the Joint Center for Energy Storage Research (JCESR). The mission of JCESR is to design and build transformative materials enabling next-generation batteries that satisfy all the performance metrics for a given application. JCESR will achieve its mission by designing and building materials from the bottom up, atom-by-atom and molecule-by-molecule, where each atom or molecule plays a prescribed role in producing targeted overall materials behavior.

The University of Illinois at Urbana-Champaign offers an intellectually stimulating environment with excellent facilities. Particularly exciting is the opportunity for the candidate to interact with outstanding faculty on campus in the areas of soft matter and chemistry, and JCESR researchers at other universities and national labs.

To apply, please send CV, names of three references, and up to three representative publications to Mrs. Ruthie Lubkeman ([lattina@illinois.edu](mailto:lattina@illinois.edu)) with Subject "**Ewoldt Group Postdoc: JCESR**". For more information or questions, please contact Prof. Ewoldt ([ewoldt@illinois.edu](mailto:ewoldt@illinois.edu))