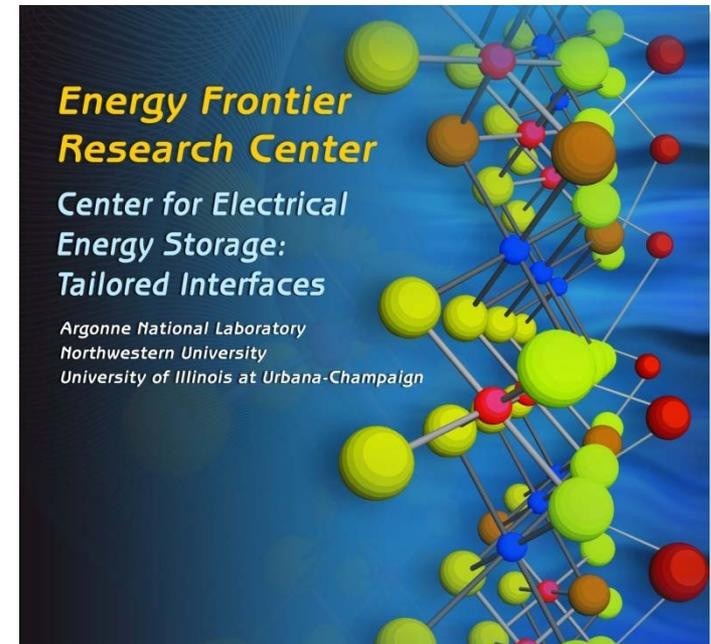


The Center's overarching mission is to acquire a fundamental understanding of interfacial phenomena controlling electrochemical processes that will enable dramatic improvements in the properties and performance of electrical energy storage devices. The use-inspired research is focused predominantly on lithium batteries.



RESEARCH PLAN AND DIRECTIONS

Control of ionic and electronic transport and the stability of an electrified interface is central to the high energy and power output, lifetime, and safety of batteries. Radical approaches to improvements in battery performance are being enabled through the synthesis and design of novel electrode-electrolyte architectures and characterization of electrochemical processes at the electrode-electrolyte interface.