

FIRST Fellows Program

Postdoctoral Research Associate Position: Nuclear Magnetic Resonance Spectroscopist

Energy Frontier Research Center
Oak Ridge National Laboratory
Oak Ridge, Tennessee

FIRST-02-ORNL

Project Description:

A new Energy Frontier Research Center for the study of Fluid Interface Reactions, Structure and Transport (FIRST) at [Oak Ridge National Laboratory](http://www.ornl.gov) is seeking a post-doctoral associate to work on a research project in nuclear magnetic resonance spectroscopy.

The NMR position is an integral part of the FIRST center mission providing crosscutting technology that will make key contributions in multiple thrust areas. The scope of the work will include (1) studies of surface transport at interfaces, diffusion measurements of solvents and ions at interfaces in electric fields (ENMR) (2) diffusion in nano-engineered electrodes (3) fundamental investigations of the structure and transport through the solid-electrolyte interface (SEI).

Qualifications:

Candidates must have a PhD in chemistry, physics, engineering or related field. The successful candidate must have a strong theoretical background and demonstrated experience in diffusion measurements by NMR. Experience in the design of specialty probes for unique measurements (NMR in electric fields, in situ diffusion measurements in batteries, toroid probes, etc.) is highly desirable.

Applicants cannot have received the most recent degree more than five years prior to the date of application and must complete all degree requirements before starting their appointment.

Technical Contact:

For more information about this position please contact Dr. Edward W. Hagaman (hagamanew@ornl.gov). Please reference this position title in your correspondence.

How to Apply:

Qualified applicants must apply online at https://www2.ornl.gov/ORNL_POST/. All applicants will need to register before they can begin the online application. For complete instructions, on how to apply, please see the instructions at <http://www.ornl.gov/orise/edu/ornl/ornl-pdpm/application.htm>. When applying for this position, please reference the position title and number.

This appointment is offered through the ORNL FIRST Fellows Program and is administered by the Oak Ridge Institute for Science and Education (ORISE). The program is open to all qualified U.S. and non-U.S. citizens without regard to race, color, age, religion, sex, national origin, physical or mental disability, or status as a Vietnam-era veteran or disabled veteran.