

# **Postdoctoral Research Associate in Development of Low Cost Carbon Fiber from Lignin Precursor**

**Carbon Materials Technology Group  
Materials Science & Technology Division Physical Sciences  
Directorate Oak Ridge National Laboratory  
Oak Ridge, Tennessee**

**ORNL09-61-MSTD**

## **Project Description:**

The Carbon Materials Technology Group in the Materials Science and Technology Division at the Oak Ridge National Laboratory has an opening in the development of low cost carbon fiber from lignin precursor. This full time position is focused on developing processes for conversion of lignin and lignin/polymer precursors into fibers and the heat treatment of these fibers for conversion into carbon fibers.

## **Qualifications:**

The preferred candidate will have an advanced degree in Materials Science, Chemistry or related field, and should have a good working knowledge of the carbon fiber production processes and experience with melt-spinning and rheology equipment. Additional desirable expertise includes fiber characterization techniques, such as SEM, X-ray diffraction, XPS, and mechanical testing. Initiative, problem-solving, dedication, teamwork, and good communications skills are highly valued.

US citizenship or capability to achieve legal permanent resident status before initiation of the assignment is desired.

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 Questions:**

Frederick S. Baker at [bakerfs@ornl.gov](mailto:bakerfs@ornl.gov)

## **How to Apply:**

Qualified applicants may apply online at [https://www2.ornl.gov/ORNL\\_POST/](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 Postdoctoral Research Associates Program and is administered by Oak Ridge Associated Universities (ORAU). This appointment 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.