Opportunity Title: Polymer Synthetic Chemist Post Bachelor Position
Opportunity Reference Code: ORNL15-44-CSD

Organization	Oak Ridge National Laboratory (ORNL)
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Description

The Chemical Sciences Division at Oak Ridge National Laboratory (ORNL) currently has a post-bachelor position available for a polymer synthetic chemist with expertise in synthesis and characterization of polymeric materials. The post-bachelor technician will work on developing multi-component polymeric materials and polymer electrolytes for battery applications under the supervision of a staff scientist. The post-bachelor technician will especially work on synthesis and characterization of novel polymers. The projects are highly collaborative and take advantage of expertise and facilities at ORNL.

Under general supervision, the Post-Bachelor will conduct research specifically in the synthesis and characterization of novel polymers and composites.

MAJOR DUTIES/RESPONSIBILITIES:
• Conduct synthesis of novel well-defined polymers using various polymerization techniques including controlled polymerization methods (anionic, ATRP, RAFT, ROMP) and other methods (conventional free radical, step growth)
• Conduct synthesis of novel monomers, nanoparticle synthesis, and post functionalization of polymers
• Perform composite membrane fabrications of the novel polymers.
• Characterize novel polymers and their structures using multiple techniques including GPC, DSC, FTIR, and NMR
• Responsible for presenting and reporting research results and publishing scientific results in peer-reviewed journals in a timely manner
• Ensure compliance with environment, safety, health and quality program requirements
• Maintain strong commitment to the implementation and perpetuation of values and ethics

Qualifications

A bachelor degree in Chemistry, Polymer Science, Materials Science or a closely related field is required. Must have completed all degree requirements before starting their appointment. Must possess demonstrated experience and expertise in organic and polymer synthesis and characterization techniques. Excellent oral and written communication skills are necessary. The abilities to work independently and willing to participate in a collaborative team effort are required. The abilities to work on multiple tasks in a limited amount of time and to independently set priorities to accomplish multiple tasks to meet deadlines are required.

Interacting across a multidisciplinary team.
Work with others to maintain a high level of scientific productivity.
Responsible for presenting and reporting research results and publishing

scientific results in key peer-reviewed journals in a timely manner.
Ensure compliance with environment, safety, health and quality program
requirements.
Maintain strong commitment to the implementation and perpetuation of
values and ethics.

This position is for one year with the option to renew term annually.

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

This ORNL Postgraduate Research Associates Program is administered by
ORAU through its contract with the U.S. Department of Energy to manage
the Oak Ridge Institute for Science and Education (ORISE).

Eligibility Requirements	• **Citizenship:** LPR or U.S. Citizen
	• **Degree:** Bachelor's Degree received within the last 36 month(s).
	• **Discipline(s):**
	  ○ **Chemistry and Materials Sciences** (12 👁)
	  ○ **Engineering** (27 👁)

Affirmation	I certify that I have completed coursework towards a degree in science, technology, engineering, mathematics, or a related field.

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