

Postdoctoral Researcher
University of Alabama at Birmingham

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Posted Mar. 7, 2024, set to expire Jul. 7, 2024

Job Title	Postdoctoral Researcher
Department	Department of Mechanical and Materials Engineering
Institution	University of Alabama at Birmingham Birmingham, Alabama

Date Posted	Mar. 7, 2024
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Application Deadline	Open until filled
Position Start Date	Available immediately

Job Categories	Post-Doc
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Academic Field(s)	Mechanical Engineering
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Job Description

Position title: Postdoctoral Researcher

University of Alabama at Birmingham

The Department of Mechanical and Materials Engineering is seeking multiple highly motivated and independent postdocs to conduct research in leading-edge polymer-derived ceramic and composite materials synthesis, processing, and characterization with experimental and simulation combined approaches. The postdoc will carry out highly exciting and leading-edge research related to federally sponsored projects and other related activities in high temperature and harsh environment materials, with an emphasis on polymer-derived materials. The specific tasks involve development of detailed research plans, implementation of the research tasks, and preparing lab reports and journal manuscripts. The research involves synthesis of different high temperature materials, polymer derived ceramics, modeling, simulations, and machine learning. She/he will also carry out property testing and characterization of different materials related to composition, phase, and microstructure, study the interactions and fundamental mechanisms of material behaviors in harsh environments, and develop theoretical understanding of the proposed research. The postdoc will be involved in preparing reports, documents, and manuscripts.

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She/he will assist the research of the graduate students. The postdoc will also help to develop grant proposals, deliver educational programs, and coordinate activities involving a number of project members.

Requirements:

PhD degree in Materials Science and Engineering or other related engineering disciplines and within 5 years of obtaining the PhD degree.

Strong background in polymer chemistry, ceramics, thermodynamics, ceramic materials processing, and combined experimental and modeling skills.

Extensive knowledge in microstructure characterization.

Strong technical writing skills, and good publication records.

Application Deadline: Review will start no later than April 5, 2024. However, applicants will be accepted until the positions are filled.

How to apply:

Interested candidates, please contact Prof. Kathy Lu (klu@uab.edu) or Prof. Manoj Mahapatra (mkmanoj@uab.edu) by email and include your CV, a cover letter detailing your research experience and interests, personal statement, and contact information for three references.

Contact Information

Please reference AcademicKeys in your cover letter when applying for or inquiring about this job announcement.

Contact