Position Title: Research Associate  
Department: Chemistry  
Reports To: Dr. Xinle Li, PhD

The following statements are intended to describe the general nature and level of work to be performed and are not intended to be construed as an exhaustive list of all responsibilities, duties and skills required of personnel so classified. All duties listed are essential functions for the position. It is understood that other related duties may be assigned.

General Function (Description):
Within the context of a research study funded by the Department of Energy, postdoctoral research associate will focus on synthesizing novel covalent organic frameworks (COFs) under supervision of Prof. Xinle Li and exploiting them in energy applications such as photocatalysis.
Application documents must be submitted to jobs@cau.edu and include a cover letter detailing specific experience, CAU Job application (available online), and curriculum vitae.

Examples of Duties and Responsibilities:

• Design and synthesis of organic monomers suitable for COFs synthesis.
• Preparation, simulation, characterization, and exploitation of novel COFs and corresponding composites.
• Work collaboratively with internal and external researchers to complete research plans.
• Generate clear and timely records of experimental work.
• Troubleshoot and customize experimental tools to respond to research questions.
• Summarize findings and publish results in research journals.
• Assist faculty with the training of students, proposal writing, and general maintenance of laboratory.

Enquiries regarding the position can be directed to xli1@cau.edu.
This Postdoctoral Research Associate is a one-year appointment with opportunity for renewal.

Knowledge, Skills and Abilities:

• Ability to perform assigned duties independently.
• Demonstrated experience in organic synthesis such as cross-coupling reactions, crystalline porous materials synthesis such as MOFs/COFs, COF structural simulation, and characterization techniques such as XRD, BET, NMR, GC-MS, UV-Vis and etc.
• Ability to understand oral and written instructions of scientific nature.
• Ability to follow department policies, procedures and regulations.
• Eligibility to work in the United States (CAU can sponsor international applicants for work visas)

Minimum Hiring Standards:

<table>
<thead>
<tr>
<th>Education</th>
<th>Ph.D. in Chemistry or MSE preferred</th>
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<tbody>
<tr>
<td>Years of Experience</td>
<td>1-2 years of previous laboratory experience</td>
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<tr>
<td>Years of Management/Supervisor Experience</td>
<td>1-2 years</td>
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