

**Postdoctoral Researcher**  
**Louisiana State University and A&M College**

Direct Link: <https://www.AcademicKeys.com/r?job=232095>

Downloaded On: May. 9, 2024 12:46pm

Posted Feb. 29, 2024, set to expire Jun. 30, 2024

<b>Job Title</b>	Postdoctoral Researcher
<b>Department</b>	Cain Department of Chemical Engineering <a href="https://lsu.edu/eng/che/index.php">https://lsu.edu/eng/che/index.php</a>
<b>Institution</b>	Louisiana State University and A&M College Baton Rouge, Louisiana
<b>Date Posted</b>	Feb. 29, 2024
<b>Application Deadline</b>	Until filled
<b>Position Start Date</b>	Available immediately
<b>Job Categories</b>	Post-Doc
<b>Academic Field(s)</b>	Chemical/Petroleum
<b>Apply Online Here</b>	<a href="https://lsu.wd1.myworkdayjobs.com/en-US/LSU/job/Postdoctoral-Researcher_R00091492-1">https://lsu.wd1.myworkdayjobs.com/en-US/LSU/job/Postdoctoral-Researcher_R00091492-1</a>
<b>Apply By Email</b>	
<b>Job Description</b>	

This researcher will support research of molecular simulations of polymers and biomolecules at Louisiana State University (LSU). The projects include investigating conformations, physical/thermodynamic properties of polymers, peptides, proteins, and RNAs, building data-driven approaches to predict structures and properties of the soft materials, and free energy calculations of small drug molecules in different environments. Specifically, we are interested in (i) semiconductive polymers with potential applications in wearable devices and soft robotics, (ii) peptides, proteins, and RNAs as therapeutic agents, and (iii) impacts of addictive/solvents in microplastics on human health. We also developed all-atom and coarse-grained molecular models for macromolecules such as polymers, proteins, RNAs, etc.

90% - Perform molecular dynamics simulations. Write up manuscripts for publications. Present

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research results at conferences. Build machine learning models

5% - Supervise graduate students

5% - Other duties as assigned

**Minimum Qualifications:**

Ph.D. in chemical engineering or equivalent

Specific Experience: Linux, Python, etc. Experience with a variety of techniques: LAMMPS, NAMD, GROMACS, AMBER, DFT, ORCA, etc.

**Preferred Qualification:**

Ph.D. with Experience with a variety of techniques: LAMMPS, NAMD, GROMACS, AMBER, DFT, ORCA, etc. Machine learning techniques are preferred but not required.

Years of Experience: 3 years or more

**Special Instructions:**

Background is required prior to hire.

Original transcripts required prior to hire.

Please include:

Teaching and Research statement

3 professional references

For inquiries regarding this position please contact Darla Dao at [darla@lsu.edu](mailto:darla@lsu.edu)

**Additional Position Information:**

**Background Check** -An offer of employment is contingent on a satisfactory pre-employment background check.

**Benefits** - LSU offers outstanding benefits to eligible employees and their dependents including health, life, dental, and vision insurance; flexible spending accounts; retirement options; various leave options; paid holidays; wellness benefits; tuition exemption for qualified positions; training and development opportunities; employee discounts; and more!

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Positions approved to work outside the State of Louisiana shall be employed through Louisiana State University's partner, nextSource Workforce Solutions, for Employer of Record Services including but not limited to employment, benefits, payroll, and tax compliance. Positions employed through Employer of Record Services will be offered benefits and retirement as applicable through their provider and will not be eligible for State of Louisiana benefits and retirement.

**HCM Contact Information:**

For questions or concerns related to updating your application with attachments (e.g., resumes, RS:17 documents), date of birth, or reactivating applications, please contact the LSU Human Resources Management Office at 225-578-8200 or email [HR@lsu.edu](mailto:HR@lsu.edu). For questions or concerns regarding the status of your application or salary ranges, please contact the department using the information provided in the Special Instructions section of this job posting.

**EEO/AA Policy**

**LSU is an Equal Opportunity Employer and SAME Agency:**

LSU is designated as a [State As a Model Employer \(SAME\)](#) agency and provides assistance to persons needing accommodations or with the accessibility of materials. For those seeking such accommodations or assistance related to this search, we encourage you to contact the Office of Human Resource Management ([hr@lsu.edu](mailto:hr@lsu.edu)).

**Contact Information**

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

**Contact**

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