

## **Postdoc position in computational chemistry at Texas Tech University, Lubbock, Texas, USA**

The Liang group in the Department of Chemistry and Biochemistry at Texas Tech University is seeking a motivated and independent postdoc to work on the multiscale simulation of photoactive proteins.

### **Qualifications:**

- Ph.D. degree in Physics, Chemistry, Biology or related field
- Research experience in at least one of the following areas:
  - Biomolecular simulation
  - Excited-state electronic structure calculation
  - Quantum dynamics and mixed quantum-classical dynamics simulation
  - Enhanced sampling method and free energy calculation
  - Protein interactions, assembly, binding and allostery
  - Machine learning
- Good publication record
- Effective verbal and written communication skills

### **Responsibilities:**

Possible research topics involve studying photochemical reactions in biomolecules using advanced electronic structure and quantum dynamics methods, and developing enhanced sampling methods for studying chemical reactions in biomolecules. The successful candidate is expected to actively discuss research progress with the PI, attend conferences to present his/her research, and publish high-quality results. Other responsibilities may include mentoring new graduate students.

### **Appointment:**

The initial employment is one year, with the possibility of extension.

### **Salary:**

The annual salary for this position is around 50,000 USD.

### **About Texas Tech University and Lubbock:**

Texas Tech University is located in the city of Lubbock in Texas. Texas Tech University is listed in the "Very High Research Activity (R1) category" of the Carnegie Classification of Institutions of Higher Education, often referred to as "Carnegie Tier One". Living in the college town at Lubbock is both cheap and convenient at the same time. The university has abundant computational resources, and several distinguished theoretical chemists work in the Department of Chemistry and Biochemistry.

**Application:**

If you are interested in joining our group, please send your application materials to the email address [rliang@ttu.edu](mailto:rliang@ttu.edu). Please include your CV, a cover letter describing your research background and future research interest, and up to three letters of recommendation.

**About Ruibin Liang:**

**Group Website:** <https://www.ruibinlianggroup.com>

## Professional Experience:

- 2020-now Assistant Professor, Texas Tech University
- 2017-2020 Postdoctoral Scholar, Stanford University  
(Advisor: Prof. Todd J. Martinez)
- 2016-2017 Postdoctoral Scholar, The University of California, Berkeley  
(Advisor: Prof. William H. Miller)

## Education:

- 2016 Ph.D. in Chemistry, The University of Chicago  
(Advisor: Prof. Gregory A. Voth)
- 2012 M.S. in Chemistry, The University of Chicago
- 2011 B.S. in Chemical Biology, Tsinghua University

## Contact Information:

Email: [rliang@ttu.edu](mailto:rliang@ttu.edu)

For more information about our group, please visit <https://www.ruibinlianggroup.com> or <http://www.depts.ttu.edu/chemistry/Faculty/liang/>