FLORIDA STATE UNIVERSITY

Multiple Ph.D. and postdoc positions openings at the Department of Chemistry and Biochemistry of Florida State University (Earliest starting date: 2022.09)

Multiple Ph.D. and postdoc positions are available starting as soon as Fall 2022 in the research group of Dr. Bin Ouyang at Florida State University. The position will be hosted by the Department of Chemistry and Biochemistry. The perspective research directions will cover the following topics:

1. Computational modeling and machine learning on battery materials and catalysis.
2. Predictive synthesis of inorganic solids, particularly high entropy functional materials.
3. Applied data science on materials informatics, including text/image mining, database development, and machine learning algorithm development for materials discovery.

About the PI

Dr. Bin Ouyang obtained Ph.D. at McGill University (2014-2017), after that he was a postdoc at the University of Illinois at Urbana-Champaign (2017) and the University of California Berkeley (2018-2022). He has more than 45 publications including Nature Materials, Nature Communications, Joule, Chem, and Advanced Energy Materials. He also serves as Associate Editor for Materials Today Energy, and advisor for the alloy phase committee of TMS. More information can be found on https://bin-ouyang.com/ or https://www.chem.fsu.edu/person/dr-bin-ouyang/.

Expectations for prospective Postdoctoral candidates

Research experience in computational chemistry/materials science. Coding experience with python.

Expectations for prospective Ph.D. students

Self-motivated for research. Research and coding experiences will be an appreciated add-on.

About Florida State University

Florida State University is a world-class public institute that ranks 19th among all public universities, and 55th among all universities in the United States. The University comprises 16 separate colleges and more than 110 centers, facilities, labs, and institutes that offer more than 360 programs of study, including professional school programs. Florida State is home to Florida's only national laboratory, the National High Magnetic Field Laboratory, which is also the only national laboratory with a high magnetic field in the United States. It is also the birthplace of the commercially viable anti-cancer drug Taxol. Additionally, Florida State University is listed as one of the eight core university partners of Oak Ridge National Lab.

About Department of Chemistry and Biochemistry

The Department of Chemistry and Biochemistry at FSU is one of the oldest departments at Florida State University, which has been established in the 1880s. It is also the home department of Nobel prize winner Prof. Harry Kroto, who discovers fullerenes. Among all the current faculty members in the department, more than 10 of the faculties are fellows of NAS, AAAS, ACS, APS, MRS, and RSC. It also hosts the director of the National High Magnetic Field Laboratory. The strong research atmosphere here will be a great catalyst for great research ideas and collaborations.

How to Apply.

Interested candidates are encouraged to email Dr. Bin Ouyang (bouyang@fsu.edu) with a short introduction of your research interests and research experiences.