



The University of Georgia®

College of Engineering

PhD position in UGA Engineering with Graduate Fellowship Support

Dr. Xianqiao Wang, Ph.D., Assistant Professor

College of Engineering

Computational Nano/Bio-Mechanics Lab: <http://xqwang.engr.uga.edu>

We are seeking highly motivated students, with strong research interests, to pursue Ph.D. degrees starting from **Spring or Fall 2018** in the areas of computational bio/nano-mechanics and multiscale predictive mechanics, especially in soft matters modeling and analysis.

Our interdisciplinary research projects require students having strong computational or theoretical skills in one (or more) of the following areas: engineering mechanics, materials science, mechanical engineering, physics or related disciplines. Qualified candidates are expected to have a master degree (preferred) or bachelor degree. Students with experience in modeling and simulation via finite element analysis, molecular dynamics packages such as LAMMPS, NAMD, *etc.*, and computational coding with C++ or other languages are strongly encouraged to apply.

Interested students should send curriculum vitae, along with descriptions of your backgrounds, research interests, and publications, via email, to: Dr. Xianqiao Wang, xqwang@uga.edu.

If you have not applied the UGA engineering PhD program, please first apply for the UGA doctoral program via <http://engineering.uga.edu/graduate-programs/admissions> . For full consideration, please submit applications **no later than December 15, 2017**.

Research in Wang Lab

The ultimate goal of our research is to understand the fundamental principles that control mechanical properties and behavior of materials in both engineering and biology by virtue of theoretical analyses, computational modeling, and experimental investigations. Our current research mainly focuses on mechanics of 2D nanomaterials and nanostructures; **mechanical principles of cortical folding**; mechanics of hierarchical structures in biological materials such as bone, shell and nacre; bio-inorganic interfaces; **mechanics of cell and nanoparticle interactions**; **instability of soft matters** *etc.* More detailed research information can be found in the Wang Lab webpage <http://xqwang.engr.uga.edu> .

University of Georgia

In the 2018 US News World Report, University of Georgia is placed in the **16th** ranking among the Top Public Schools, and in the **54th** ranking among the National Universities. <https://www.usnews.com/best-colleges/rankings/national-universities/top-public> . Athens, homes to the UGA, is located 70 miles northeast of Atlanta and offers a strong health-care system, affordable home/apartment rental prices, *etc.*