



PhD openings, Department of Mechanical Engineering, Clemson University

One or two fully funded PhD positions (tuition plus research/teaching assistantships) are immediately available in Dr. Zhaoxu Meng's Lab in the Department of Mechanical Engineering at Clemson University during the academic year 2019~2020 (can start from spring or summer semester). Our research goal is to advance the design and development of advanced materials in different engineering disciplines by drawing inspiration from nature, e.g. impact-resistant materials inspired from lobster cuticles and fracture-resistant materials inspired from the multi-level structure of human bones. The main focus of our work is establishing computational models at multiple length and time scales with emphasis on advanced manufacturing processes of materials. Future research projects will closely collaborate with manufacturing research groups, Clemson University International Center for Automotive Research (CU-ICAR) (<https://cuicar.com/>), industrial companies (BMW, Ford, Volvo, Michelin, etc.), and National Laboratories.

About Clemson University: From a graduating class of 37 in 1896 to today, Clemson has become a strong force in higher education and gained national recognition in areas from academics to athletics. During the past decade that the University has been ranked in the top 25 public universities by *U.S. News & World Report*, the number of graduate degrees awarded has more than doubled, the University has successfully completed a \$1 billion capital campaign, research awards reached \$110 million and the University's athletic teams have gained national success. In particular, Clemson Tigers Football was National Champions in 2016 and 2018. It is a great time to be a Clemson Tiger! (Rankings and Brags: <https://www.clemson.edu/about/rankings.html>)

Qualified candidates with a strong interest in computational and solid mechanics, multiscale modeling, composites, and advanced materials, and background in civil/mechanical/aerospace engineering are welcome to apply. Additional admission information: <https://www.clemson.edu/graduate/admissions/index.html>

Interested candidates can send a CV and a copy of the transcript to Dr. Zhaoxu Meng at zhaoxumeng2018@u.northwestern.edu with a subject title "PhD application".

