

PhD Position in Civil Engineering, Louisiana State University – Fall 2023

A fully funded PhD position is available at the Department of Civil and Environmental Engineering of Louisiana State University. The successful candidate will be co-supervised by Dr. George Z. Voyiadjis and Dr. Yaneng Zhou. The research projects will be focused on **computational geomechanics**, including modeling rock damage in tool-rock interactions and modeling subsidence. The expected start date is Fall 2023.

Qualifications:

- B.S. or M.S. in civil/hydraulic/mechanical engineering or a related discipline. A master's degree with research experience is a plus.
- Strong background and interest in continuum mechanics, soil/rock mechanics and numerical modeling.
- Experience with finite element software (ABAQUS, ANSYS, etc.) and programming (FORTRAN, MATLAB, C++, etc.).

Application:

Interested candidates are invited to email Dr. Voyiadjis (voyiadjis@eng.lsu.edu) and Dr. Zhou (yanengzhou1@lsu.edu) with a copy of CV, transcripts, a statement of research, and the contact information for 3 references. English test scores (required TOEFL and optional GRE) for foreign applicants are also encouraged to provide. Further application information is available at:

<https://www.lsu.edu/eng/cee/academics/graduate/>.

About the co-supervisors:

Dr. George Z. Voyiadjis is the Boyd Professor at the Louisiana State University in the Department of Civil and Environmental Engineering, the highest professorial rank awarded by the Louisiana State University System. He also holds the Freeport-MacMoRan Endowed Chair in Engineering. He is a leading expert in damage mechanics and numerical simulation of material behavior. Dr. Voyiadjis is a Foreign Member of the European Academy of Sciences and Arts, the Academia Europaea, Physics & Engineering Sciences, the European Academy of Sciences, the National Academy of Engineering of Korea, and the Polish Academy of Sciences, Division IV (Technical Sciences). More information is available at: <https://www.lsu.edu/eng/cee/people/voyiadjis.php>.

Dr. Yaneng Zhou is an assistant professor - research at the Louisiana State University. His primary research interest is in computational geomechanics, rock mechanics, finite element modeling, tool-rock interactions, and subsidence. Dr. Zhou obtained his Ph.D. degree in civil engineering at the University of Pittsburgh in 2013. He did postdoctoral research at the University of Minnesota, Pennsylvania State University, and Louisiana State University. More information is available at:

<https://www.lsu.edu/eng/cee/people/zhou.php>.