



# University of Colorado **Boulder**

COLLEGE OF ENGINEERING AND APPLIED SCIENCE

## Funded PhD position in Engineering Mechanics or Geomechanics

Join our dynamic research group to work on cutting-edge research at the interface between mechanics, physics, and thermodynamics. Please explore [yidazhanggroup.com](http://yidazhanggroup.com) for more information about our recent projects.

### The Position:

We are seeking a PhD student with passion for mechanics and physics to work in a funded graduate research assistant (GRA) position at the University of Colorado Boulder (CU Boulder), CEAE department, **starting Spring or Fall 2023**. The position will be open until fulfilled.

### What you will do:

- Perform theoretical mechanics research on 1) surface force-informed modeling of fracture propagation in brittle geomaterials, **or** 2) surface poromechanics for soft nanoporous materials.

### What we want to see in you:

- Anticipated or recently obtained (<1 year) B.S. or M.S. degree in relevant fields.
- Strong background in physics, solid mechanics, and mathematics.
- Self-driven in learning new knowledge in other scientific fields such as chemistry and geoscience.
- Demonstrate ability to conduct independent research.

### Why Should You Apply?

- Teaching Assistantship and Research Assistantship (~\$2700 per month) with tuition and health insurance coverage for 4 years.
- GRE score is not required for application.
- Excellent faculty and flexible coursework/program/major options.
- Boulder, Colorado, is ranked the No. 1 Best Place to Live in the nation, According to U.S. News in 2021 ([Link](#)).

### The Program:

The *Engineering Science* and the *Geomechanics* programs at the CEAE department, University of Colorado Boulder focus on building a strong fundamentals for PhD students who are interested in research in a variety of topics related to engineering mechanics and geomechanics. We have excellent faculty who:

- Provide top notch courses in analytical mechanics, computational mechanics, and their applications to practical engineering problems.
- Guide you towards innovative research ideas.
- Help you build foundations in knowledge and experience that can launch you towards your future goals.

For more information, please contact Dr. Yida Zhang via [yida.zhang@colorado.edu](mailto:yida.zhang@colorado.edu). For those who are interested in applying, please send an email with subject line "Application for Eng Mech/Geomech GRA PhD Position". The email should include a curriculum vitae/resume, TOEFL and GRE (if available) scores, and academic transcripts. Review of applications will begin immediately.