



University Of Pittsburgh

Swanson School of Engineering

Department of Mechanical Engineering and Materials Science

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PhD Research Positions

Several PhD research positions are currently open in the Computational Nanomechanics group at the University of Pittsburgh for the following research projects:

1. Thermomechanical behavior of carbon-based nanomaterials
2. Atomistic-to-continuum thermomechanical theory in solids
3. Mechanics of nanoporous and nanocrystalline metals

Successful applicants will carry out challenging research projects in a highly intellectual and dynamic environment under the guidance of Professor Albert C. To. The computational tools the group employs include molecular dynamics simulations, first-principles methods, Monte Carlo simulations, and finite element/meshfree methods. The computational resources the group has access include a brand new 800-core cluster (shared with other research groups at Pitt) and a 24-core cluster. In addition, the group has access to the state-of-the-art computing facilities at the Pittsburgh Supercomputing Center (www.psc.edu).

Highly self-motivated individuals interested in computational nanomechanics and multiscale modeling and simulations are encouraged to apply. Applicants should possess good programming and computer skills in general. Interested applicants should email Professor Albert C. To (albertto@pitt.edu) their resume, which project(s) they are interested in, and their past research works (if any), and future career goals. Questions regarding these positions are welcome and should be directed to Professor To.