



University of Pittsburgh

Swanson School of Engineering

Department of Mechanical Engineering and Materials Science

Open Position: Postdoctoral Researcher - *In situ* Nanomechanics

There is an opening for a postdoctoral researcher in the research group of Prof. Tevis Jacobs in the Department of Mechanical Engineering and Materials Science at the University of Pittsburgh.

The research will investigate atomic-scale processes governing the mechanics of materials and interfaces at the nanoscale. Mechanical testing of nanoparticles will be performed in a transmission electron microscope (TEM) using a cutting-edge *in situ* nanomanipulator apparatus. The work will also involve atomic-resolution imaging and analysis of materials, as well as post-processing using numerical routines (e.g., in Matlab) to extract quantitative measurements of material response.

Candidates must have a Ph.D. in materials science, mechanical engineering, or a closely related field. Demonstrated expertise with electron microscopy is required; direct experience with *in situ* TEM is preferred. Also desirable, though not required, is experience with mechanical testing as well as the topic of mechanical behavior of materials (theory and application).

The successful candidate should be highly motivated and able to work independently. This position will also include mentorship of graduate and undergraduate students, presentations at international conferences, and the writing of publications for peer-reviewed scientific journals.

To apply, please send an email to tjacobs@pitt.edu with the *subject line: Application for Nanomechanics Postdoc*. Attached to the email should be a single PDF file containing a CV, copies of two relevant publications, and the names and contact information for three references.

Review of applications will begin on June 30th, 2020 and continue until the position is filled.

The University of Pittsburgh is an Affirmative Action / Equal Opportunity Employer and values equality of opportunity, human dignity, and diversity. EEO/AA/M/F/Vets/Disabled.