



University of Pittsburgh

Swanson School of Engineering

Department of Mechanical Engineering and Materials Science

Two Open Positions for Postdoctoral Researchers: Nanoscale Mechanics of Surfaces and Interfaces

There are two openings for postdoctoral researchers in the research group of Prof. Tevis Jacobs in the Department of Mechanical Engineering and Materials Science at the University of Pittsburgh.

The purpose of the research effort is to understand the performance of advanced materials used in the semiconductor industry. Within this larger research effort, there are two sub-projects, each of which will be led by a different postdoctoral researcher. In both cases, the research will involve the following activities:

- Characterization of coatings for advanced technology
 - Including material properties and surface topography
- Experimental testing to measure surface properties (such as adhesion and friction)
 - Including nanoscale and macroscale measurements.
- Numerical integration and modeling to understand results.

Candidates must have a Ph.D. in materials science, mechanical engineering, or a closely related field. Expertise with *either* electron microscopy *or* atomic force microscopy is required.

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 Nanoscale-Mechanics 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 July 18th, 2022 and continue until the position is filled.

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