The University of Pittsburgh

Department of Mechanical Engineering and Materials Science

The Department of Mechanical Engineering and Materials Science at the University of Pittsburgh invites applications for six tenure-track and tenured positions. Successful applicants should have the ability to build an externally funded research program that contributes to the existing strengths of our program while enhancing areas targeted for future growth. We are seeking applicants from all areas of mechanical engineering and materials science; candidates with research interests in nanomanufacturing, energy systems, soft materials, sustainability, or active nanomaterials are particularly encouraged to apply. Applicants should have a Ph.D. in Materials Science, Mechanical Engineering, or a related field, and a demonstrated record of excellence in teaching and research.

The Department of Mechanical Engineering and Materials Science, recently formed by a merger of the departments of Materials Science and Engineering and Mechanical Engineering at the University of Pittsburgh, has 25 tenured or tenure-track faculty members who generate nearly $6 million in annual research expenditures. The School of Engineering is planning substantial investments in this new department in the coming years for faculty and infrastructure to support a dynamic and interdisciplinary center of excellence in teaching and research. Current research thrusts include high temperature materials, computational mechanics and fluid dynamics, material characterization at multiple length scales, energy technologies, functional nano, micro/biofluidics, advanced ceramics, smart structures, and biomechanics.

The Department of Mechanical Engineering and Materials Science has excellent facilities in the areas of structural and analytical characterization, thermofluid imaging, microsensors and actuators, property measurement, computational transport phenomena, processing of materials, and the mechanics of active materials, among others. The Department also has multiple laboratories that are part of the collaborative Swanson Center for Micro and Nano Systems, and numerous Mechanical Engineering and Materials Science faculty are contributing members of the Petersen Institute of NanoScience and Engineering (http://www.nano.pitt.edu), which recently opened the Nanoscale Fabrication and Characterization Facility that houses state-of-the-art Transmission Electron Microscopy, Dual Beam FIB, and dedicated E-beam Lithography and clean-room facilities. The University of Pittsburgh is ranked second in the nation for microscale and nanoscale research (*Small Times* 6(3), 2006) and 37th in the world's top 100 global universities by Newsweek International. The city of Pittsburgh has also evolved into a hub for innovative high-tech development and research, with thousands of technology companies now contributing to the region.

Qualified applicants should send their curriculum vitae, a statement of their research interests and teaching philosophy, and the names and addresses of at least three references to: **Chair, Faculty Search Committee, Department of Mechanical Engineering and Materials Science, 648 Benedum Hall, School of Engineering, University of Pittsburgh, Pittsburgh, PA 15261**. Materials can also be submitted electronically to **Pitt_mems_search@engr.pitt.edu**. Review of applications will begin on November 15, 2006, and will continue until the positions are filled. Women and minorities are strongly encouraged to apply. The University of Pittsburgh is an equal opportunity/affirmative action employer.