Applications are invited for a postdoctoral position in the Department of Mechanical Engineering to lead research efforts in the areas of probe-based nanofabrication and nanomaterials. Applicants should possess knowledge and experience in one or more of the following areas: materials characterization, scanning probe microscopy, crystal growth, self-assembly, nanopatterning, and nano/micro fabrication. The applicant is expected to independently contribute in one to two of the following projects:

(1) Probe-based directed assembly of nanostructures (quantum dots, nanowires, etc.) utilizing mechanically patterned templates

(2) Design and characterization of shape memory materials for electronic packaging

(3) Nano/micro fabrication of 3-D biointeractive microenvironments for cell mechanotransduction studies

Applicants must have a PhD in engineering, physics, chemistry, materials science, or a related field. Experience with writing grant proposals and research papers are highly desirable. To be considered, the following materials are required: (i) Vitae with complete list of publications, (ii) Names and contact information of three references, and (iii) A brief summary of previous/current research and future research interests. Applications may be submitted by e-mail to Dr. Curtis Taylor at cortaylor@vcu.edu, or by regular mail to 601 West Main Street, P.O. Box 843015, Richmond, Virginia 23284-3015. Priority will be given to complete applications received by July 23, 2006.

About Virginia Commonwealth University (VCU)

VCU, located in downtown Richmond, Virginia, is the third-largest research university in Virginia. The VCU Medical Center, adjacent to the city's business and financial district, was founded in 1838. The Academic Campus is located in the picturesque early 20th-century residential neighborhood called the Fan District. The campus began in 1917 as the Richmond School of Social Work and Public Health, later became the Richmond Professional Institute, and in 1968 merged with the Medical College of Virginia to create VCU. The VCU School of Engineering (SoE) began in 1996 and is undergoing tremendous growth in student population and research initiatives. In Fall of 2007, the SoE will open a new building to be shared with the school of business. The new facilities will include state-of-the-art lecture halls, labs, common areas and residential colleges to maximize the synergy of the two schools’ students, professors and programs. The strategic focus of the SoE is deliberately one of engineering for the future, in particular focusing on biologically- and medically-related engineering and nanotechnology, building on strong linkages with the university’s comprehensive academic medical center, the basic sciences, and business school.