

Positions Available

**BIOMATERIALS RESEARCH
FACULTY POSITION**
Department of Restorative Dentistry
University of Illinois at Chicago

A biomaterials research faculty position is available as part of a significant research effort in the Department of Restorative Dentistry at the University of Illinois at Chicago. Responsibilities include full-time research, postdoctoral and graduate student research sponsorship, and materials science education for predoctoral, postdoctoral, and graduate students.

Qualifications include a PhD or equivalent degree and experience with externally funded research. Ideally, the advanced degree would be in polymer science, however, related fields will be given strong consideration (e.g., materials science). Salary and rank commensurate with experience and qualifications.

Applicants should forward their curriculum vita and the names of three references by **May 21, 1998** to Dr. Stephen Campbell, Head, Restorative Dentistry, University of Illinois at Chicago, mc555, 801 South Paulina, Chicago, Illinois 60612.

AA/EOE

POSTDOCTORAL POSITION
Nanomechanics and Nanotribology
University of Maine

A postdoctoral position is available in experimental nanomechanics and nanotribology. The research emphasizes quantitative aspects of nanomechanics of contact formation and rupture adhesion, viscoelastic response, and shear modulation. Applicants must have a PhD degree in materials science, physics, or a related field. Previous experience with AFM, ultra-low-load indentation, surface mechanical property measurements and modeling, and instrument development is desirable. Facilities include an UHV AFM, commercial AFM, Hysitron indenter, and nanotribometer.

The position is available immediately for one year with possibility of renewal for a second year contingent on funding. Review of applications will begin immediately. Send applications to: Professor W.N. Unertl, Laboratory for Surface Science & Technology, University of Maine, Orono, ME 04469-5764, e-mail: unertl@maine.maine.edu.

The University of Maine is an affirmative action/equal opportunity employer.



LOUISIANA STATE UNIVERSITY
AND AGRICULTURAL AND MECHANICAL COLLEGE

DIRECTOR

Center for Advanced Microstructures and Devices

Louisiana State University invites applications and nominations for the Director of its Center For Advanced Microstructures and Devices (CAMD).

LOUISIANA STATE UNIVERSITY

Louisiana State University, located in Baton Rouge 70 miles from New Orleans, is the flagship institution of the Louisiana State System. It is a Research I University, which places LSU in the top 2% of the nation's colleges and universities – the Research I designation is shared by only 59 public and 29 private institutions.

The university has an enrollment of 28,000 students, including 4,600 at the graduate level and operates on a budget of \$387 million. Its faculty of 1,300 have sponsored research programs totaling in excess of \$75M per year. For more information visit our website at www.lsu.edu.

CAMD

The heart of the Center, which opened in 1992, is a 1.5 GeV synchrotron used to provide light from the infrared to hard x rays for a wide variety of basic and applied research projects. The Center serves LSU faculty in the basic sciences, life sciences, and engineering as well as faculty from other Louisiana institutions and out-of-state researchers. It has an annual operational budget of \$4 million and employs a technical staff of 21 and a support staff of 14.

Twelve operational beamlines provide light for research in the areas of photoelectron spectroscopy, fluorescence spectroscopy, soft x-ray fluorescence, XAFS/NEXAFS, x-ray lithography, and high-aspect-ratio microfabrication. A new 7 tesla superconducting wiggler provides hard x rays up to 70 keV.

CAMD also provides staff and development support under contract to private industry for the development of applications in the areas of x-ray lithography and high-aspect-ratio microfabrication. 2,000 square feet of Class 100 cleanroom are fully equipped with instruments for lithographic processing and metrology including SEM's, RIE, and ion milling. Additional information is available through the website at www.camd.lsu.edu.

RESPONSIBILITIES

The Director of CAMD reports directly to the Provost and Executive Vice-Chancellor of the University. In addition to leadership and administrative responsibilities for the operation of the Center, (including the synchrotron, beamlines, cleanrooms and installed equipment) the Director will be expected to spearhead the building of a strong materials research and microfabrication infrastructure within LSU and the larger State community. The Director is also expected to serve as the Center's primary contact in attracting new faculty and industries to the facility and as a leader in developing a culture that gives high priority to collaboration, education, and innovation.

QUALIFICATIONS

We are seeking an individual with a proven record of accomplishment in science and/or engineering research. The successful applicant must have experience with large grant and contract preparation and management, and demonstrated expertise in working with science and technology programs. Appropriate planning, management, budget, and organizational skills are required as well as the ability to describe technical programs to both technical and non-technical audiences. It is expected that the successful candidate will qualify for tenure in an academic department.

APPLICATIONS AND NOMINATIONS

Applicants should send a letter of interest, resume, and the names, addresses, and telephone numbers of at least five professional references to Dr. Jerry P. Draayer, Chairman, CAMD Search Committee, Department of Physics and Astronomy, Louisiana State University, Baton Rouge, LA 70803. We expect to begin screening applications by 6/1/98. LSU is an EEO/AA employer.