

Positions Available

MANAGER OF MATERIALS SPECTROSCOPY FACILITY

**Materials Science Center
Cornell University**

The Manager of the Materials Spectroscopy Facility will be responsible for supervising the operation and maintenance of the equipment in the Facility and for the instruction and training of Facility users. A PhD in Physics, Applied Physics, Materials Science or closely related field, or a Masters degree with a number of years of experience with modern analytical equipment is required.

Applicants should be proficient with sophisticated laboratory instrumentation, including ultra-high vacuum technology, photon and charged-particle optics and their application in analytical instrumentation, and with computer control, data acquisition and analysis equipment. Applicants should have demonstrated expertise in one or more of the following areas of materials spectroscopy and characterization, and be capable of quickly developing a high level of competency in the remainder: Atomic Force Microscopy, Scanning Tunneling Microscopy and related scanned probe techniques; optical spectroscopy including FTIR, UV-Vis-IR Spectrophotometry, Raman Spectroscopy; X-ray Photoemission Spectroscopy, Auger Electron Spectroscopy and Secondary Ion Mass Spectroscopy.

Applicants should be capable of effectively teaching facility users in the fundamentals, capabilities and limitations of the various spectroscopic techniques and be oriented towards the management of a hands-on user facility. The user community will consist of faculty, graduate students, staff researchers associated with the Cornell University Materials Science Center, and visitors.

The starting salary will be commensurate with experience and qualifications. Consideration of applications will begin March 1993 and continue until the post is filled. Applications and resume, with the names of three references, should be addressed to:

Prof. Robert A. Buhrman
School of Applied and Engineering
Physics
Clark Hall, Cornell University
Ithaca, NY 14853-2501

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Affirmative-Action Employer.*

FACULTY POSITIONS

**University of Florida
Department of Materials Science and Engineering**

Several tenure-track positions are available for qualified individuals with expertise in the following areas:

(A) **SUPERCONDUCTING AND MAGNETIC MATERIALS**, processing, microstructure and properties relations, characterization, behavior of materials (including metals, ceramics, polymers, electronic, organic and biomedical materials) and processes in high magnetic fields, and collaboration with the National High Field Magnetic Laboratory operated jointly by the University of Florida, Florida State University and Los Alamos National Laboratory.

(B) **ELECTRICALLY AND OPTICALLY ACTIVE POINT DEFECTS** in wide bandgap semiconductors for integrated optoelectronic and diode laser applications.

Candidates will be expected to teach graduate and undergraduate courses and initiate and sustain a vigorous sponsored research program within the Department. Positions may be offered at the assistant, associate or full professor level depending on the qualifications of the individual candidate. Applicants must have a PhD in Materials Science and Engineering or closely related field with two years appropriate experience. The Department currently has 26 faculty, 120 upper division undergraduate, and 160 graduate students with sustained research expenditures over \$9 million and academic programs in biomaterials, ceramics, electronic materials, metals, minerals and polymers. The deadline for submission of applications is **July 1, 1993**. Applicants should submit a cover letter specifying interest together with curriculum vitae and three letters of recommendation to:

Search Committee Chairperson
Department of Materials Science and Engineering
University of Florida
Gainesville, FL 32611-2066

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FACULTY POSITION

**University of Missouri-Rolla
Department of
Ceramic Engineering**

The Department of Ceramic Engineering at the University of Missouri-Rolla has an opening at the Research Assistant Professor level commencing September 1, 1993. All visa requirements must be satisfied by September 1, 1993.

Candidates must have earned a PhD in Ceramic Engineering and must have a solid background in thermodynamics and phase equilibria of condensed and noncondensed systems. Adept with high-temperature controlled environment furnace equipment. Experienced in all methods of chemical, mineralogical and microstructural characterization of refractories.

Interested persons should submit resumes and a list of three references by **July 1, 1993** to:

Search Committee
University of Missouri-Rolla
Department of Ceramic Engineering
Rolla, MO 65401
(314) 341-4401

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THIN-FILM RESEARCH

Northwestern University

A postdoctoral position will be available in the area of high-temperature superconductivity thin-film research. A PhD in materials science, physics, or physical chemistry is required. Experience in MOCVD deposition and thin-film characterization is essential. The position is for one year, renewable subject to review.

A curriculum vitae and the names of three references should be sent to Professor R.P.H. Chang, Department of Materials Science and Engineering, Northwestern University, 2225 Sheridan Road, Evanston, IL 60208.

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Positions Wanted

Research/Postdoctoral position in industrial or academic R&D in processing, characterization and design of materials. PhD-EE, MS, BS-Materials Engineering. Background in thin-film technology, electronic ceramic and package materials, piezoelectric devices, fiber optics, structure-property relations, sol/gel. Well published. Please reply to **Box XVIII, No. 501**.

Employers—

TO REPLY TO BOX NUMBER, WRITE:

Box No. _____, c/o MRS Bulletin, Materials Research Society
9800 McKnight Road, Pittsburgh, PA 15237