

**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 began in March 1993 and will 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

*Cornell University is an Equal Opportunity,  
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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**VISITING FACULTY POSITION**

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

A nontenure-track visiting faculty position is available for qualified individual with expertise and knowledge of rheology (of melts, solutions, and composites), instrumented processing, and on-line data acquisition (specifically injection molding and extrusion). Experience in processing and property measurements on polymeric blends and alloys including melt interfacial tension measurements. Research background in plastic recycling required. Experience as Advanced Technology Project Coordinator.

Candidates will be expected to sustain a vigorous sponsored research program within the department and may be assigned to teach undergraduate or graduate courses in polymer processing and plastic manufacturing processes.

Position may be offered at the visiting assistant, visiting associate, or visiting professor level, and depending on the qualifications of the individual candidate, the salary is negotiable. Applicants must have a PhD in materials science and engineering or closely related field with a minimum of 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:

Dr. Charles L. Beatty  
Search Committee Chairperson  
Department of Materials Science and Engineering  
University of Florida  
Gainesville, FL 32611-2066

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**Positions Available**



**FACULTY POSITIONS**

**Metallurgical and Materials Engineering  
Michigan Technological University**

Michigan Technological University is adding one or two faculty in tenure-track positions. A doctoral degree in a materials or closely related discipline is required. Salary and rank are dependent upon background and experience. We are seeking persons who have the potential to develop strong programs in teaching and sponsored research in materials engineering. Appointment at the senior level will require demonstrated capability for conducting sponsored research programs. Special consideration will be given to candidates in the area of processing, with particular emphasis on ceramic, electronic, and composite materials. Applicants are encouraged to respond as soon as possible but applications will be accepted until the positions are filled. Qualified applicants should apply to:

Professor M.R. Plichta  
Chairman, Search Committee  
Department of Metallurgical  
and Materials Engineering  
Michigan Technological University  
1400 Townsend Drive  
Houghton, MI 49931

*Michigan Technological University is an equal opportunity educational institution/equal opportunity employer.*

**DIRECTOR OF INDUSTRIAL PROGRAMS**

The NSF Science and Technology Center for Advanced Cement-Based Materials (ACBM) has a position available to continue development and implementation on an innovative technology transfer program. The center invites applications for Director of Industrial Programs to support and expand the Industrial Affiliates Program, develop opportunities with industry for collaborative research, communicate research results to professional organizations, develop proposals for technology initiatives, and plan workshops and short courses. The ACBM is a \$2M per year interdisciplinary research consortium headquartered at Northwestern University in partnership with the University of Illinois at Urbana, and conducting research in collaboration with Purdue University, the University of Michigan, and the National Institute of Standards and Technology. The ideal candidate will have an advanced degree in civil engineering or materials science, have three or more years research or managerial experience in industry or government, and strong communication and interpersonal skills. Interested persons should send a resume and three letters of recommendation to Professor Surendra P. Shah, Director, ACBM, Northwestern University, 2145 Sheridan, Room A130, Evanston, IL 60208-4400.

*Northwestern University is an equal opportunity, affirmative action employer.*

**POSTDOCTORAL FELLOWS  
Rutgers University  
Department of Ceramics**

Rutgers University, Department of Ceramics, invites applications for two postdoctoral fellowship positions in the area of ceramic matrix composites: One in the area of mechanical properties testing and one in microstructure evaluation. The candidates must have completed a PhD. The successful mechanical properties candidates must have a good knowledge of mechanical properties and should have had experience testing long-fiber composites, preferably woven ceramic composites. The microscopist should have a good knowledge of TEM, surface analytical equipment and, preferably, studies of fiber/matrix interfaces. The positions are intended for one to two years and are dependent on the successful acquisition of funding. Interested candidates should send their resumes along with copies of three letters of recommendation and relevant reprints by **July 15** to the attention of: Dr. S.C. Danforth or Dr. W.R. Cannon, Dept. of Ceramics, Rutgers University, P.O. Box 909, Piscataway, NJ 08855-0909. The intended starting date is September 1, 1993.

*Rutgers University is an Equal Opportunity Employer.*



**MARKETING SPECIALIST  
Materials Research Society**

Materials Research Society (MRS) seeks an individual with 2-3 years of experience in marketing (not for profit experience preferred), working with volunteers, project management, budget development, and having good written and verbal skills. Individual is responsible for marketing meetings and short courses and managing Short Course Program. A scientific background and experience with continuing education marketing and management is desirable, but not required. MRS has 11,000 members, and produces two major meetings each year with short courses. Send resume and salary requirements to Merry Geil, Materials Research Society, 9800 McKnight Road, Pittsburgh, PA 15237.

**Position Wanted**

**Successful R&D investigator** with PhD in materials science. Seeking creative position in a stable environment. Strengths are in materials development, synthesis, and characterization. Do synthesis of film, bulk and powder materials, powder processing, CVD, spectroscopy (optical and electron), microscopy (optical, SEM, STM, AFM), surface science, build labs. Worked extensively with glass, ceramics, cermets, composites, and superhard. Please reply to **Box No. XVIII, No. 601**.

**Ad closing for the  
August MRS Bulletin is**

**July 1, 1993**

**To place your ad,  
call Mary E. Kaufold  
at (412) 367-3036  
today!**

**Employers—**

**TO REPLY TO BOX NUMBER, WRITE:**

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