

Positions Available

## ELECTRON MICROSCOPIST STAFF SCIENTIST

The National Center for Electron Microscopy has an opening for a Electron Microscopist/Staff Scientist to perform research on the JEOL 1000 Atomic Resolution Microscope, to supervise its operation and to be responsible for all aspects of experimental high resolution electron microscopy at the NCEM.

The scientist in this position must have the ability to collaborate in productive research and to actively initiate collaborations that make use of the unique capabilities of the instrument. The successful applicant will be responsible for ensuring the instrument performs at its optimum level and exploring steps for improving its performance. As the resident expert, he/she will assist and advise users of the facility with their research and help provide information to the user community to ensure optimal and widespread access. Duties include atomic resolution imaging, interpretation of images and diffraction patterns, computer simulation of images, optical diffractogram analysis, crystallographic analysis, specimen selection and preparation, the preparation of results for publication and active participation in NCEM projects aimed at achieving improved resolution.

Applicants should have a Ph.D. in the physical sciences, a strong background in transmission electron microscopy and electron crystallography, and demonstrated current practical experience in high resolution imaging and phase contrast image interpretation. Salary will be set in accordance with qualifications and experience. This is a one year term appointment with possibility of renewal.

Send two resumes (indicating Job #B/6946) with the names of three references to U. Dahmen, c/o Lawrence Berkeley Laboratory, Employment Office, #1 Cyclotron Road, 90-1042, Berkeley, CA 94720. Women and minorities are encouraged to apply. EEO/AA, M/F/H.



### TENURE-TRACK FACULTY POSITION

#### Department of Materials Science and Engineering Virginia Polytechnic Institute and State University

The Department of Materials Science and Engineering at Virginia Tech is seeking qualified candidates for a tenure-track faculty position at the assistant professor level. The position is available as of July 1, 1992. This dynamic department has activities in a broad range of fields including ceramic, electronic, semiconducting, metallic, composite, glass, and polymeric materials. Candidates are sought who have an earned doctorate in an appropriate field of science or engineering and who wish to combine a strong desire for excellence in undergraduate and graduate teaching with *development of a funded, quality research program in an important field of materials science and engineering*. Candidates in all fields will be considered. However, those with expertise or interest in materials synthesis and processing are especially encouraged to apply.

Salaries are competitive and depend on the qualifications of the candidate. Applicants should submit a curriculum vitae, a list of publications, a reprint of their most significant publication, and the names of three references. The cover letter should discuss in detail the candidates teaching and research interests. Send applications by **February 29, 1992** to:

Chair, Search Committee  
Materials Science and Engineering Department  
Virginia Polytechnic Institute and State University  
Blacksburg, Virginia 24061-0237  
(703) 231-6640

*The Virginia Polytechnic Institute and State University is an affirmative action, equal opportunity employer, and welcomes applications from all qualified candidates. Women and minorities are encouraged to apply.*



**UNC CHARLOTTE**

### ENDOWED PROFESSORSHIP

UNC Charlotte is seeking qualified candidates for an Endowed Professorship in Engineering. Consideration will be given to applicants in precision engineering, manufacturing or materials with preference being given to individuals with expertise in one or more of the following areas: metrology; submicron surface characterization; precision engineering; materials science, synthesis, characterization or processing; device research, development, design and/or manufacturing. The position will be a senior-level appointment with a salary commensurate with qualifications. Earnings from the endowment and other funds will be used to supplement the salary and to provide support for students, travel, equipment, and other activities which are expected to include both teaching and research.

The endowed professor will have instructional and research responsibilities entirely related to the graduate program. The successful candidate will present outstanding credentials in research and will possess the ability to play a leadership role in developing a successful research/graduate program in engineering at UNC Charlotte. A doctorate in engineering or closely related area is preferred, but consideration will be given to individuals with a masters degree and significant industrial/research experience.

Please forward nominations to: Dr. Edward S. Perzel, Chairperson, Endowed Professorship Search Committee, College of Engineering, UNC Charlotte, Charlotte, NC 28223. Review of applications will begin January 15, 1992, but applications will be accepted until the position is filled.

*EEO/AA Employer.*

### FACULTY POSITION IN CERAMIC ENGINEERING

#### University of Cincinnati Department of Materials Science and Engineering

The Department of Materials Science and Engineering has a tenure-track position for an assistant/associate professor beginning September 1992. Preference will be given to candidates with a strong interest in ceramic processing, electrical ceramics, and structure-property relations in ceramics.

Applicants for this position must have an earned doctorate in ceramic science/engineering, materials science/engineering, or a closely related field. The successful applicant is expected to develop independently funded research programs, teach undergraduate and graduate courses, and is encouraged to interact with other faculty members in the University on research topics under investigation in several existing interdisciplinary research centers. He/she will join an expanding department currently with 15 faculty members involved in teaching and research in ceramic, metallic, and polymeric materials.

Applications will be accepted until the position is filled. Please send a detailed resume, supporting materials, and names of three references to:

Raj N. Singh  
Professor of Ceramics  
Department of Materials Science and Engineering  
ML-12  
University of Cincinnati  
Cincinnati, Ohio 45221-0012

*University of Cincinnati is an Equal Opportunity/Affirmative Action Employer.*

**Positions Available**

**MATERIALS PROCESSING  
FACULTY POSITION**

**University of California, Irvine**

Applications are being accepted for an anticipated faculty position at an assistant professor level in chemical and biochemical engineering for July 1992. Outstanding individuals with a strong commitment to research and teaching excellence are encouraged to apply. Applicants should have a PhD degree in chemical engineering or related field and the potential to lead a high-quality and well-funded research program in materials processing, including polymers, ceramics, composites, biomaterials, and electronic, photonic and recording materials. This is a tenure-track position, and the successful candidate is expected to be able to teach chemical engineering courses at all levels. The successful candidate has the unique opportunity and challenge to participate in building a new department in a research university and to interact with the active interdisciplinary Materials Science and Engineering Program within the School of Engineering.

A curriculum vitae, a brief description of proposed research activities, and at least four reference letters should be sent by **January 31, 1992** to Dr. H.C. Lim, Professor & Chair, Biochemical Engineering Program, School of Engineering, University of California, Irvine, CA 92717.

*The University of California, Irvine, is an Equal Opportunity/Affirmative Action Employer. The School of Engineering welcomes applications from qualified women and minority candidates.*

**MATERIALS ENGINEERING  
San Jose State University**

The Department of Materials Engineering at San Jose State University seeks PhD in materials engineering to fill a tenure-track position. Candidates should show strong commitment to teaching, laboratory development at the graduate and undergraduate levels, and demonstrate capability to carry out an independent research program. Candidates with experience in materials analysis techniques (PVIN #ENGR92-45)/or polymers and composites (PVIN #ENGR92-46) are especially encouraged to apply. Send applications to: K.S. Sree Harsha, Department of Materials Engineering, San Jose State University, San Jose, CA 95192-0086.

*San Jose State University is an equal opportunity educator and employer and specifically invites and encourages applications from women and minorities. Appointments can only be made to permanent residents or citizens.*

**FACULTY POSITION IN MATERIALS  
Composite Materials**

The Materials Section in the Department of Mechanical and Aerospace Engineering of the University of California, Irvine is seeking applicants for an anticipated tenure-track position at the level of assistant professor in the Materials Section. Applicants must have a strong interest in teaching undergraduate and graduate level courses and must be committed to developing a strong research program in composite materials. Research interests in the effects of processing on behavior and in composite materials for aerospace applications are highly desirable. Applicants must have an earned doctorate in materials science and engineering or related engineering field before any final offer is extended. Applications will be accepted until the position is filled. Please send applications to: Chair of Materials Search Committee, Department of Mechanical and Aerospace Engineering, University of California, Irvine, CA 92717.

*UCI is an Equal Opportunity/Affirmative Action Employer. The School of Engineering welcomes applications from women and minority candidates.*

**FACULTY POSITION IN  
MATERIALS SCIENCE  
California Institute of Technology**

The Materials Science program at Caltech invites applications for a tenure-track faculty position. An initial junior faculty appointment is normally for four years and is contingent upon completion of the PhD. Exceptionally well-qualified applicants would be considered for a tenured appointment. Candidates must have a demonstrated ability for conducting high quality research in materials science or a closely related field and be willing to participate in the teaching program at the graduate and undergraduate levels. Applicants should submit a detailed curriculum vitae with a list of publications, and three letters of recommendation to:

Prof. W.L. Johnson, Search Committee Chairman  
Keck Laboratory MS 138-78  
California Institute of Technology  
Pasadena, CA 91125

*Caltech is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

**HARVARD UNIVERSITY**

Applications and nominations are invited for a faculty position in solid mechanics in the area of engineering materials in the mechanical engineering and materials science group of the Division of Applied Sciences. Candidates' research activities should include a substantial experimental component. Responsibilities include active participation in Harvard's undergraduate degree program in engineering sciences as well as research and teaching at the graduate level. Appointment to a tenure-track junior faculty position is anticipated; however, a tenure appointment can be made for an exceptionally qualified candidate. Applicants should submit bibliographies and curricula vitae, and the names, addresses, and telephone numbers of three references to: Prof. John W. Hutchinson, Search Committee Chair, Pierce Hall, Division of Applied Sciences, Harvard University, Cambridge, MA 02138.

*Harvard is an equal opportunity/affirmative action employer. Applications from qualified women and minority group members are particularly encouraged.*

**EM/IMAGING SPECIALIST**

High-level technical position in the CSU Electron Microscopy Center for electron and optical microscopy; TEM, SEM, EDS, confocal microscopy, and freeze-fracture. Salary: \$30,000-40,000. Send vitae and three references with telephone numbers to: EM Search Committee, Department of Anatomy and Neurobiology, Colorado State University, Ft. Collins, CO 80523. Early application deadline: **February 15, 1992.**

**Positions Wanted**

**Materials Scientist:** PhD 1989, permanent resident, seeks R&D opportunities. Specializes in XRD, SEM, EDS, TGA, and DTA. Experienced in ceramic processing; single-crystal growth of metal sulfides, metal oxides, and metals; oxide thin film deposition; Ag-sheathed HTS superconducting wire fabrication; and equipment set-up.

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

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