

**Positions Available**

**SYNTHETIC POLYMER CHEMIST**

The Colorado School of Mines Department of Chemistry and Geochemistry expects to have a tenure-track opening for a synthetic polymer chemist for Fall 1994. Preference will be given to hiring at the assistant professor level; however, outstanding candidates at all levels will be considered. Applicants must have a PhD in a polymer chemistry, organic chemistry, or materials science with a commitment to establishing a strong graduate research program in synthetic polymer chemistry and to excellence in teaching. Primary teaching duties will be organic chemistry and polymer chemistry. The successful applicant will be expected to contribute to an established interdepartmental program in materials science. Send curriculum vitae, transcripts, a brief statement of research interests, and have three letters of recommendation sent to: Polymer Chemist Search Committee, Colorado School of Mines, #93-12-15, 1500 Illinois Street, Golden, CO 80401. Review of applications will begin January 5, 1994 and continue until such time as a successful candidate is found.

*The Colorado School of Mines is an AA/EEO employer. Female and minority candidates are encouraged to apply.*



**Westinghouse Idaho Nuclear Company, Inc.**

**Electron Superprobe Scientist**

Westinghouse Idaho Nuclear Company is seeking an Electron Superprobe Scientist who will operate, troubleshoot, train users and maintain a state-of-the-art Electron Superprobe as part of an advanced materials and waste form development team.

A BS in Physics or equivalent is required. We are seeking candidates with a thorough background in x-ray diffraction, electronics, and computer programming.

For immediate consideration, please send a resume with a copy of this advertisement to: Ace Ballard, Ref: MRB.

**Westinghouse Idaho Nuclear Company, Inc.**  
**P.O. Box 4000**  
**Idaho Falls, Idaho 83415-3201**

*Equal Opportunity Employer  
 U.S. Citizenship Required*

**SENIOR FACULTY  
 Yale University**

Yale University invites applications and nominations for three senior faculty appointments in the departments of **chemical, electrical and mechanical engineering**. We seek distinguished scholars whose research activities complement existing ones, and are related but not restricted to the following areas: combustion, computer engineering, interfacial phenomena, mechanical behavior of materials/solid mechanics, microelectronics/photonics, separation processes and molecular thermodynamics.

Applications and nominations should be sent before **January 15, 1994** to:

Prof. Gary L. Haller  
 Chair, Council of Engineering  
 Yale University  
 P.O. Box 208267  
 New Haven, CT 06520

*Yale University is an Affirmative Action and Equal Opportunity Employer, and particularly welcomes applications from women and minority candidates.*

**FACULTY POSITION  
 North Carolina State University  
 Department of Materials  
 Science and Engineering**

A tenure-track position at the Assistant/Associate Professor level in the area of diamond thin film deposition and characterization is now available. Candidates will be expected to teach undergraduate and graduate courses and to initiate and sustain a vigorous sponsored research program in the thin film diamond and other areas. Applicants must have a PhD in materials science and engineering or closely related field. As the applicant will assume an existing program and facilities for microelectronics diamond thin film research, prior diamond research or closely related experience is required. Some research project management experience is also desirable. A cover letter, curriculum vitae and the names of three references who are familiar with your teaching/research performance should be sent to: Search Committee Chairperson, Department of Materials Science and Engineering, North Carolina State University, Box 7907, Raleigh, NC 27695. **The deadline for submission is March 15, 1994.**

*North Carolina State University is an Affirmative Action and Equal Employment Opportunity Institution.*

**MIT  
 FACULTY SEARCH  
 Materials Science  
 Materials Engineering**

The MIT Department of Materials Science and Engineering has searches in progress for tenure track Assistant Professors. Faculty members are sought with demonstrated potential, creativity and teaching ability in an aspect of the field of materials science and engineering. These positions are potentially open for persons specializing in any of the materials classes (metals, ceramics, polymers or electronic materials), or more broadly in materials science or materials engineering.

Doctorate required and experience desirable. Salaries and benefits are competitive. Positions will be filled only if exceptional candidates are found. Appointment to a more senior position is possible based on experience and accomplishments.

Interested persons should send a complete resume including a list of publications and names and addresses of three persons who could supply letters of reference. This material should be sent to: **Professor Merton C. Flemings, Head, Department of Materials Science and Engineering, Massachusetts Institute of Technology, Building 8-309, 77 Massachusetts Avenue, Cambridge, MA 02139-4307.**

MIT is an Equal Opportunity/Affirmative Action Employer  
 MIT is a non-smoking environment

**Massachusetts  
 Institute of Technology**

**FACULTY POSITION  
 University of Michigan**

The Department of Materials Science and Engineering at The University of Michigan has an opening for a tenure track faculty position at the level of assistant, associate or full professor. Applicants must have a PhD degree, be qualified to teach undergraduate and graduate courses in materials science and engineering, and should wish to develop independent and cooperative research programs. A demonstrated research potential or record if required. Preferred areas of expertise include materials theory and modeling, electronic and/or photonic materials, advanced characterization methods and materials synthesis and processing. *Women and minority candidates are encouraged to apply.*

Send resume and a list of references to:

Chairman, Search Committee  
 Department of Materials Science  
 and Engineering  
 The University of Michigan  
 2300 Hayward Street  
 Ann Arbor, MI 48109-2136

*An Equal Opportunity Affirmative Action Employer.*

**Positions Available**

**PHOTONIC MATERIALS FACULTY POSITION**

**University of California, Irvine**

The School of Engineering invites applications for a tenured position at the rank of associate professor or professor effective July 1994 or later. Applicants must have an earned PhD degree in engineering or science and many years of service in an educational and/or research institution. The successful candidate is expected to have broad knowledge and abilities which will strengthen the solid state research program and Materials Science and Engineering graduate program in the School of Engineering. Evidence of good teaching abilities on both the undergraduate and graduate levels and a strong interest in developing innovative, state-of-the-art curricula is required.

The successful candidate must have an outstanding research reputation in materials research in the areas of growth, characterization, and application to electronic and photonic devices; and broad understanding of applications including but not limited to aerospace, biomedical, communications, microelectronic, and semiconductor industries. Because of the School's proximity to numerous leading-edge and high technology industries that make use of materials and microelectronic devices in their products, the candidate is expected to participate in resourceful interaction with the local corporations. Demonstrated ability to obtain substantial extramural funding is presumed.

The School has a major electronic research facility in the final stage of construction. The faculty member is expected to share the leadership in programmatic development and coverage of the new facility and in collaborative research efforts.

A curriculum vitae, a brief description of proposed research activities, and at least four names of reference should be sent to: William A. Sirignano, Dean, School of Engineering, 305 Rockwell Engineering Center, University of California, Irvine, CA 92717-2700.

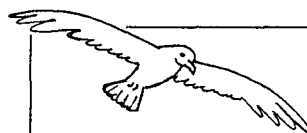
*The University of California, Irvine is an Equal Opportunity/Affirmative Action Employer committed to excellence through diversity.*

**TENURE-TRACK POSITION**

**Department of Mechanical and Aerospace Engineering  
Arizona State University**

Arizona State University is seeking applications for a tenure-track position in Experimental Solid Mechanics or Experimental Structural Dynamics at the rank of Assistant or Associate Professor. The successful candidate will become a member of a growing program within the Department of Mechanical and Aerospace Engineering. Existing laboratory facilities in the College of Engineering and the College of Liberal Arts and Sciences provide excellent research opportunities in a wide variety of areas ranging from atomic level characterization and material synthesis to mechanical testing and thermal analysis of materials. Candidates for the position must possess an earned doctorate and have a commitment to undergraduate and graduate teaching as well as to the establishment of a research program. The ideal candidate should have demonstrated capabilities in the use of state-of-the-art experimental techniques and instrumentation. Applicants must send a curriculum vitae and a list of at least three professional references to: Prof. Dusan Krajcinovic, Chair of the Search Committee, Department of Mechanical and Aerospace Engineering, Arizona State University, Box 876106, Tempe, Arizona 85287-6106. Application deadline is **January 31, 1994** or the last day of each month thereafter until the position is filled.

*Arizona State University is an equal opportunity/affirmative action employer.*



**BROOKHAVEN  
NATIONAL LABORATORY**

**DEPARTMENT OF APPLIED SCIENCE**

The Department of Applied Science seeks a PhD scientist with experience in the investigation of the atomic structures of solid/solid and other buried interfaces, with emphasis on the understanding of the microscopic structure of buried interfaces. Experience with transmission electron microscopy or X-ray techniques is preferable.

Scientists at all career levels are invited to apply. Candidates should submit a curriculum vitae and the names of three references to: Dr. Kelvin G. Lynn, Division Head, Materials Science Division, Department of Applied Science, Brookhaven National Laboratory, Associated Universities, Inc., P.O. Box 5000, Upton, Long Island, NY 11973-5000. Equal Opportunity Employer m/f/d/v.

**bnl** **BROOKHAVEN  
NATIONAL LABORATORY**  
ASSOCIATED UNIVERSITIES, INC.

*at the center of science, beside the sea*

**JUNIOR FACULTY POSITIONS COMPUTATIONAL  
MATERIALS SCIENCE**

**Stanford University**

The Departments of Materials Science and Chemical Engineering at Stanford University are pleased to announce a tenure-track faculty position at the Assistant Professor level in Computational Materials Science. We hope to fill the position by October 1, 1994. The faculty member is expected to address fundamental physical, chemical, and engineering problems in materials research from a microscopic perspective. Stanford has a wide range of multidisciplinary efforts in polymers, complex fluids, magnetic materials, superconductors, semiconductors, and opto-electronic materials involving such areas as thin films, interfaces, and defect structures in materials. Applicants should be seeking a stimulating interdisciplinary environment to pursue **fundamental computational intensive theoretical research**. Responsibilities include undergraduate and graduate teaching to an interdisciplinary student body as well as the development of a strong research program. A PhD or equivalent is required. Candidates should send a resume including research accomplishments, teaching experience, publications and the names of at least three references to: Prof. Curtis W. Frank, c/o Dean's Office, Terman 214, Stanford University, Stanford, CA 94305-4027 by **January 15, 1994**.

*Stanford University is an equal opportunity/affirmative action employer encouraging applications from women and minority candidates.*

**Positions Available**

**PHOTONIC MATERIALS  
FACULTY POSITIONS  
University of Missouri-Rolla**

The Department of Ceramic Engineering at the University of Missouri-Rolla has two openings at the Research Assistant Professor level.

**POSITION #1:** Seeks a research specialist/scientist with a PhD degree for microstructural characterization of refractories. Applicants must have a good background in process/applied mineralogy, and modern characterization techniques including cathodoluminescence, SEM, quantitative XRD, and others applied to refractories.

Application deadline: **January 1, 1994**. All visa requirements must be satisfied by January 1, 1994.

Interested persons should submit resumes and a list of three references to:

Search Committee #1  
University of Missouri-Rolla  
Department of Ceramic Engineering  
Rolla, MO 65401-0249

**POSITION #2:** The position requires a person with a PhD in Ceramic Engineering, with a minimum of 4 years of experience in the synthesis and characterization of ceramics. Specifically, the successful candidate will have expertise in: (1) rheological characterization of precursors for the preparation of powders, fibers and films, (2) high-temperature controlled atmosphere experimentation, and (3) dielectric, piezoelectric and electrostrictive property characterization. In addition, the ability to develop glass compositions with tailored properties for electronic material applications is required. Responsibilities will include directing research programs, supervising graduate students, and interacting with governmental and industrial sponsors. Excellent communication and supervisory skills is desired. Hands-on experience with characterization techniques including XRD, DTA/TGA, SEM, TEM, IR, BET, Auger, XPS/ESCA, and NMR is required.

We offer an annual salary of \$32,000 and a comprehensive benefits package. Application deadline: **February 1, 1994**. All visa requirements must be satisfied by February 1, 1994.

Interested persons should submit resumes and a list of three references to:

Search Committee #2  
University of Missouri-Rolla  
Department of Ceramic Engineering  
Rolla, MO 65401-0249

*The University of Missouri-Rolla is an Equal Opportunity/Affirmative Action Employer.*

**DEAN—COLLEGE  
OF ENGINEERING  
North Carolina State University**

North Carolina State University invites applications and nominations for the position of Dean of the College of Engineering.

The Dean, as chief executive officer of the College of Engineering, provides leadership for large, high-quality programs in education, research, and extension. The College is one of the largest in the country, with average annual enrollments of approximately 6,000 undergraduates and 1,200 graduate students. Of the 423 faculty and research staff members, 210 are tenure-track faculty members. The 10 departments offer 17 BS, 17 MS, and 15 PhD degree programs. Annual research contracts and grants exceed \$28M; total research expenditures exceed \$38M annually. Substantial interdisciplinary research is conducted under the auspices of large, well-supported research centers and institutes including the Center for Communications and Signal Processing, the Center for Transportation and the Environment, the Integrated Manufacturing Systems Engineering Institute, the Mars Mission Research Center, the NSF Engineering Research Center for Advanced Electronic Materials Processing, and the Precision Engineering Center.

Candidates must have an earned doctoral degree in engineering or related field; distinguished performance in education, research, and administration; communication skills; ability in fund raising activities; and a demonstrated commitment to education, research, and extension.

Review of applications will begin February 1, 1994, and will continue until the position is filled. Send resume, cover letter and three references to:

Dr. Robert Clark  
Chair, Search Committee  
North Carolina State University  
Box 8614  
Raleigh, NC 27695-8614

*Being an Affirmation Action, Equal- Opportunity Employer, North Carolina State University eagerly seeks applications and nominations of members of underrepresented groups.*

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

**Positions Wanted**

The following advertisements are from MRS members seeking employment in materials research and development.

**PROSPECTIVE EMPLOYERS—**  
To correspond confidentially with the applicant,  
**REPLY TO THE APPROPRIATE  
BOX NUMBER, AS FOLLOWS:**

Box \_\_\_\_\_, No. \_\_\_\_\_,  
c/o MRS Bulletin  
Materials Research Society  
9800 McKnight Road  
Pittsburgh, PA 15237-6006

**Research/engineer** position in industry/academia in development of materials. Extensive experience with TEM, SEM, XRD, microhardness. Experience with arc melting, induction melting, horizontal Bridgeman technique, PhD materials science, MS physics, BA mathematics-physics. Background modeling interfacial defects and diffusivity of interfaces. Worked extensively with aluminum and stainless steel alloys. **Employers—**Please reply to **Box XVIII, No. 1201**.

**Materials Scientist**, PhD with wide experience (industrial environment) in processing and characterization of piezoelectric, dielectric, magnetic, superconducting, and composites for electronic packaging applications. In-depth knowledge on dielectric formulations for thin multilayer ceramic capacitor applications. Excellent organizational, interpersonal, and communication skills. Seeks senior position in the challenging industrial environment. **Employers—**Please reply to **Box XVIII, No. 1202**.

**Recent Materials Science and Engineering Graduate** with thin film growth (PVD and MBE), and semiconductor and optical materials experience seeks an industrial process development or R&D position. Skilled in the use of XPS, AES, XRD, SEM, and SIMS for the characterization of surfaces, interfaces, and microstructure. Excellent communication and leadership abilities. **Employers—**Please reply to **Box XVIII, No. 1203**.

*Current MRS Members are eligible for one free "Position Wanted" classified ad per year in the MRS Bulletin. Ad length up to 50 words; one-time insertion. Ad must be reserved no later than the 1st of the month prior to the month of publication. (For example, to place an ad in the February issue, space must be reserved by January 3. For information, contact Mary E. Kaufold, MRS Bulletin Advertising, 9800 McKnight Rd., Pittsburgh, PA 15237-6006. Phone (412) 367-3036; fax (412) 367-4373.*