

**Positions Available**

**X-RAY DIFFRACTION AND SCATTERING  
ASSOCIATE DEVELOPMENT ENGINEER (APS-5)**

The University of California at Santa Barbara invites applications for an associate development engineer (APS-5) in the X-ray Facility of the Materials Research Laboratory. Responsibilities include hands-on operation and maintenance of x-ray machines and diffractometers, specifically CAD4 and Scintag machines; establishing, maintaining, and monitoring health and safety policies and procedures; overseeing software development and implementing with instrument training for undergraduate and graduate students and postdoctoral research staff.

Current research spans a broad range of scientific and technological programs, among which are structure determination of novel new zeolites, phase behavior characterization of biomolecular materials, nonequilibrium studies of flowing complex fluids, and surface and internal structure studies of oxide and semiconductor thin films. Preference will be given to candidates with a PhD in physics, chemistry, or materials science and those with the demonstrated experience in (1) hands-on operation and maintenance of x-ray machines and diffractometers, and (2) successful collaborative research records. Candidates should have a strong background in electronics, mechanical skills, and computer programming (UNIX in particular).

Interested persons should apply to position 93-05-022 SC (include resume, statement of interest, copies of publications, names and addresses of references) to: Personnel Office, University of California, Santa Barbara, South Hall, Room 3607, Santa Barbara, CA 93106. Please apply prior to **October 15, 1993** for initial consideration; position is open until filled.

*The University of California is an Equal Opportunity/Affirmative Action Employer*

**POSTDOCTORAL POSITION(S)  
Princeton Materials Institute  
Princeton University**

Available immediately; thermochemistry of synthetic zeolites. Anticipated thermochemistry of high oxidation state perovskites, including oxide fuel cell materials; also glass-ceramics and high-pressure phases. Background in solid-state chemistry, ceramics, mineral physics; experience in crystallography, thermodynamics, and high temperature experimentation. Contact Prof. A. Navrotsky, Dept. of Geological and Geophysical Sciences, Princeton University, Princeton, NJ 08544. Phone: (609) 258-4674; fax: (609) 258-1274.

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*Research*

**PROGRAM  
OFFICER  
Materials Policy Study**

The National Research Council is seeking a Program Officer for its National Materials Advisory Board. Responsibilities include direction of technical studies for use by government agencies in formulating policies and programs related to materials science and engineering. Requires a Master's or equivalent in materials science and engineering, or a related field, at least 4 to 5 years related experience preferably in advanced ceramic materials, photonic materials, or electronic materials. Some familiarity with the materials communities in industry, government, and university is desirable, as well as knowledge of policy issues in materials science and engineering, and knowledge of government agencies and their work in materials related issues preferred. Excellent verbal, written, and management skills also required. Please send resume in confidence to: CETS/NMAB (306.103)/RS, National Research Council, 2101 Constitution Ave., NW, Washington, DC 20418. EOE.



**CHAIRMAN**

**Department of Manufacturing Engineering**

Boston University's College of Engineering invites applications and nominations for the position of Chairman, Department of Manufacturing Engineering. We anticipate a tenured faculty appointment at the rank of Professor for a prominent researcher with excellent leadership skills, administrative experience, and interest in education.

In recent years Boston University has invested over \$110 million in new science and engineering facilities, and has significantly enhanced the scope and prominence of research and graduate programs in engineering while maintaining the strength of our undergraduate programs. The Department of Manufacturing Engineering now consists of 15 full-time faculty. Established research programs include *Dynamic Scheduling and Planning of Manufacturing Systems*; *Materials for Manufacturing and Process Control*; *Robotics, Control and Flexible Automation*; and *Manufacturing Design including CAD, CAM and CIM*. Collaborations with other University departments and centers with facilities such as the Connection Machine, as well as with private industry, contribute to the research and educational goals of the Department. The size of the senior class has increased recently to 50, with an equal number of full-time-equivalent master's students, and a growing cohort of 20 doctoral candidates. The department was the first to be granted ABET accreditation, and its B.S. program has been consistently ranked as one of the top two programs in the country.

The new Chairman will be expected to provide academic and administrative leadership in a period of continued departmental growth and development, while pursuing a significant research program of his or her own. Considerable resources and infrastructure have been and will be put in place to help make this a realistic expectation for an outstanding candidate.

Direct applicants should send a letter of interest, a curriculum vitae, and the names of three references. Indirect nominations should include information about the prospective candidate, and the nominee's vitae if possible. Full review of applications will begin November 15, 1993. All correspondence should be addressed to: Professor Theodore D. Moustakas, Chairman, Manufacturing Search Committee, Boston University, 44 Cummington Street, Boston, MA 02215.



COLLEGE OF ENGINEERING

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**REMINDER:**

Deadline for 1994 Spring Meeting abstracts is November 1, 1993.

**Mail abstracts to:**

Materials Research Society • 9800 McKnight Road • Pittsburgh, PA 15237

Ad closing for the  
November MRS Bulletin is  
October 1, 1993.

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