

Positions Available

POSTDOCTORAL RESEARCH POSITION

Postdoctoral research associate position(s) available in Fall 1994 to mid 1995. Research includes high temperature calorimetric studies of ceramic materials, including perovskites, nanocrystals, amorphous oxides, microporous materials, and nitrides. A PhD in mineral science or other related discipline is required. Background in chemistry, mineralogy or materials science, or ceramics, with experience in high temperature experimentation, thermodynamics, or crystallography. Send CV and letters of inquiry to: Prof. Alexandra Navrotsky, Department of Geological and Geophysical Sciences, Guyot Hall, Princeton University, Princeton, New Jersey 08544. Telephone: (609) 258-4674; Fax: (609) 258-1274; e-mail address: alex@weasel.princeton.edu.

Princeton University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL ASSOCIATE

**Department of Materials Science and Department of Physics
Rice University**

Rice University seeks applicants to upgrade an existing apparatus for thin film deposition and characterization incorporating scanning electron microscopy with electron polarization analysis (SEMPA), Auger electron spectroscopy (AES), electron dispersive spectroscopy, and low energy electron diffraction (LEED) in an ultra-high vacuum deposition chamber. The position requires the development of this instrument and its use for studying basic magnetic properties of thin films, equilibrium magnetic domain structures, and ultrahigh density written bit patterns. Experience in UHV surface science and technology is essential. A background in thin film preparation and characterization and/or spin-sensitive electron spectroscopies would be advantageous. Applications should be submitted to: Prof. Bruce M. Lairson, Department of Materials Science, lairson@rice.edu, or Prof. F. Barry Dunning, Department of Physics, fbd@spacsun.rice.edu, Rice University, P.O. Box 1892, Houston, TX 77251.

Rice University is an Equal Opportunity/Affirmative Action Employer.

THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

**FACULTY POSITIONS IN
PHYSICS AND APPLIED PHYSICS**

The Hong Kong University of Science and Technology (HKUST) seeks applicants to fill three (3) tenure-track positions. Candidates with expertise in electronic band structure theory, liquid crystals/polymers, device/sensor physics and materials synthesis/processing are specially encouraged to apply.

A LECTURER/ASSISTANT PROFESSOR is expected to have a PhD degree and relevant post-doctoral research experience, and a potential for excellence in teaching and research. A SENIOR LECTURER/ASSOCIATE PROFESSOR or READER requires in addition evidence of teaching effectiveness, research accomplishments and professional leadership.

Currently 27 regular and several visiting faculty teach 186 BSc students and about 50 MPhil and PhD students in the Department. Our research programmes cover broad areas of condensed matter, materials and optical physics, in both theory and experiment. Research institutes in the University include ones on Advanced Materials, Microsystems, Information Technology, and Biotechnology. State-of-the-art computing network systems (including a 144-node Intel Paragon MPP) and facilities for Microelectronics Fabrication and Materials Characterization and Preparation are integral parts of the scenic campus lying by the shore of Port Shelter Bay.

The compensation package, which includes generous fringe and housing benefits, is highly competitive with those offered by most leading North American institutions. Assistance for research start up is provided.

Application or nomination, including a curriculum vitae, a research plan, and names of three references should be sent to: The Personnel Office, HKUST, Clear Water Bay, Kowloon, HONG KONG [FAX: (852) 358-0700 & 719-5823].

Review of applications will commence on 1 December 1994, and will continue until all positions are filled.

FTC-G2658

**CARBORUNDUM
MICROELECTRONICS**

Carborundum Microelectronics, a division of The Carborundum Company, a rapidly growing electronic packaging business, is seeking key individuals to staff the R&D department of its Phoenix, Arizona facility. Packaging applications in the communications, computer, and aerospace industries are our target.

Senior Plating Engineer

Responsibilities include expanding current plating capabilities of ceramic packages, diagnosing and troubleshooting plating problems, and developing plating strategies for new products. Desired qualifications include a BS in material science or chemistry, expertise in interfacial science, and electronics industry experience in plating.

Senior Braze Engineer

Responsibilities for this position will include the design of experiments and the development and evaluation of processes which include die and wire bond, prototype fabrication, and defining and implementing brazing technology for the attachment of leads and seal rings. A BS in metallurgy or material science required, plus 1-3 years' electronics industry experience desired.

We offer competitive compensation and a comprehensive benefits package. For consideration, send resume with salary history, indicating position of interest, to: Human Resources, The Carborundum Company, 10409 S. 50th Pl., Phoenix, AZ 85044.

EOE



CARBORUNDUM

**POSTDOCTORAL POSITION
Fullerene-Based Nanotechnology
Rice University**

A postdoctoral position stressing experimental physics and/or chemistry dealing with technologies at the nanoscale is available. Research will focus on implementing fullerene fibers (i.e., carbon nanotubes) as proximate probes, as, for example, AFM/STM tips, and as nano-manipulators. The selected individual will be expected to lead frontier efforts in the emerging nanotechnologies, and thus should possess exceptional technical and communication skills. Candidates should submit a letter of application, curriculum vitae, and three letters of reference to: Prof. Richard Smalley, MS #100, Rice University, P.O. Box 1892, Houston, TX 77251 before January 1, 1995.

*Rice University is an Equal
Opportunity/Affirmative Action Employer.*

Positions Available

DEAN

**Thayer School of Engineering
Dartmouth College
Hanover, New Hampshire**

Applications and nominations are sought for the position of Dean of the Thayer School of Engineering at Dartmouth College.

Applicants should hold a doctoral degree in engineering or a closely related field and be eligible for a tenured full professorship, as demonstrated by experience and excellence in both teaching and research. Talents in management and economic development activities are also required. The successful candidate will have significant intellectual stature and achievements and show strong potential for providing leadership in both academic and professional aspects of engineering education, acting as an articulate spokesperson for the School. If you would like additional information, please contact Prof. Bengt Sonnerup (Phone: 603-646-2883; email: sonnerup@dartmouth.edu).

Send your nomination, or application with supporting materials to: Prof. Bengt Sonnerup, Chair, Thayer School Dean Search Committee, 6004 Parkhurst Hall, Dartmouth College, Hanover, NH 03755-3529 (Inquiries: 603-646-2883; sonnerup@dartmouth.edu). Review process starts in October 1994.

Dartmouth College is an Affirmative Action, Equal Opportunity Employer.

**PROFESSOR OF
MECHANICAL METALLURGY
École Polytechnique
Fédérale De Lausanne**

The Swiss Federal Institute of Technology Lausanne has an opening for a professor of mechanical metallurgy in the Department of Materials Sciences.

The candidate should have several years of professional experience in the areas of mechanical behavior of metals and alloys, metal forming, and testing. A capability to lead important research projects and to cooperate with other laboratories as well as an aptitude to teach on all academic levels are required. The publications of the candidate should testify to his high scientific standing.

Female applicants are particularly welcome. Deadline for application: January 31, 1995. Date of entry: Spring 1996 or to be discussed. Interested persons are invited to request more information by writing to: Présidence de l'EPFL, CE-Ecublens, CH-1015 Lausanne.



ÉCOLE POLYTECHNIQUE
FÉDÉRALE DE LAUSANNE

**FACULTY POSITION
SUNY Stony Brook**

Department of Materials Science and Engineering

The Department of Materials Science and Engineering at the State University of New York at Stony Brook intends to appoint at least one assistant professor in the 1995-96 academic year.

Candidates must hold a doctoral degree in materials science and engineering or a related branch of engineering or physical science. Experience and interest in materials processing and synthesis (theory and/or experiment) is desirable, but outstanding candidates with other expertise will be considered. In addition to teaching, the ability to initiate an independent research program and interact with industry is of importance. The search will remain open until suitable candidates are found. Review of candidates' files will begin by February 1, 1995.

Please send curriculum vitae and names of at least three references to: Dr. Michael Dudley, Chairman, Department of Materials Science and Engineering, SUNY Stony Brook, Stony Brook, NY 11794-2275.

SUNY Stony Brook is an affirmative action/equal opportunity educator and employer.

**EXPERIMENTAL CONDENSED
MATTER PHYSICIST
Tufts University**

The Department of Physics and Astronomy at Tufts University is announcing an opening for a tenure-track position at the assistant professor level in experimental condensed matter physics as of September 1, 1995.

Applications are sought from candidates who have a PhD or equivalent degree. We are particularly interested in candidates whose research experiences are in non-linear optics, optical properties of materials, magnetic properties of materials, mesoscopic physics, or other areas of materials science. The appointee will be expected to teach both undergraduate (including introductory physics) and graduate students, and to conduct significant experimental research. We are looking for an appointee who has demonstrated ability to develop a research program that leads to results of major significance. The appointee will be expected to seek and obtain outside funding for such research.

Interested persons should send a resume and the names and addresses of three references to: Condensed Matter Search Committee, Department of Physics and Astronomy, Tufts University, Medford, MA 02155 by January 15, 1995.

Tufts University is an Affirmative Action Equal Opportunity Employer, and encourages minorities and women to apply.

Massachusetts Institute of Technology

**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

SEND BULLETIN NEWS TO:

Editor, MRS Bulletin, Materials Research Society

9800 McKnight Road, Pittsburgh, PA 15237-6006

FAX: (412) 367-4373

Positions Available

**FACULTY POSITION IN MECHANICAL BEHAVIOR OF MATERIALS
Lehigh University**

The Department of Materials Science and Engineering at Lehigh University has an opening for a professor with expertise in the mechanical behavior of materials. This tenure-track appointment will preferably be at the assistant professor level, although qualified associate professor candidates will be considered. The successful candidate must have a demonstrated record of research in the experimental and/or theoretical aspects of mechanical behavior and be able to conduct independent and cooperative research. Undergraduate and graduate teaching skills are essential for the position. The candidate will also be responsible for directing the mechanical behavior laboratory of the Materials Research Center. Position is available September 1, 1995.

Please send full resume and names of three references by February 1, 1995 to:

Prof. David B. Williams
Chairman, Search Committee
Department of Materials Science
and Engineering
Whitaker Laboratory
5 East Packer Avenue
Bethlehem, PA 18015-3195
Fax: (610) 758-4244

Lehigh University is an equal opportunity/affirmative action employer.

**ASSISTANT OR ASSOCIATE PROFESSOR
Bowling Green State University**

Bowling Green State University anticipates making a tenure track appointment, at either the assistant or associate professorial level, of a scientist or engineer with interests and background in polymers. The appointee will become a member of the Materials Science Group and will have a primary appointment in the department of either chemistry or physics, as is appropriate. There will be opportunity for interaction with other members of the diverse Materials Science faculty and with the Center for Photochemical Sciences. Research interests in synthesis, structure/property relations, or processing technology (e.g. radiative curing methodology) will be welcome. Teaching responsibilities will be in chemistry, photochemical science, and/or materials science. The University is prepared to provide substantial funding for program initiation. All application materials, including a specific research proposal, should be sent to: D.C. Neckers, Executive Director for Photochemical Science/Chair, Department of Chemistry, Bowling Green State University, Bowling Green, Ohio 43403.

Women and minority candidates are encouraged to apply. BGSU is an affirmative-action/equal-opportunity employer.

**MATERIALS SCIENCE
Bowling Green State University**

The Department of Geology invites applications for a new position in materials science with a specialization in ceramics that emphasizes the synthesis or characterization of ceramics. The successful candidate is expected to develop and maintain a vigorous research program in ceramics. Teaching responsibilities include one course in the Geology Department (Petrology) and one course in the materials science program per year. The opening is a tenure-track position to be filled at the assistant professor level beginning in August 1995. A PhD is required.

The materials science program is an interdisciplinary effort between the chemistry, physics, geology, biology, and technology departments. Facilities include: complete geochemistry lab; XRF; XRD; SEM; AAS; TEM; FTIR; NMR; Sun and Silicon Graphics workstations; SPARC 1000 server; microscopy laboratory including transmitted, reflecting, cathodoluminescence, UV, and fluid inclusion microscopes; and complete sample preparation facilities.

Applications should include a vita and statement detailing research interests. Applicants should arrange to have three letters of reference sent. The deadline for applications is January 1, 1995. Applications should be sent to: Chair, Search Committee, Department of Geology, Bowling Green State University, Bowling Green, OH 43403.

Women and minority candidates are encouraged to apply. BGSU is an affirmative-action/equal-opportunity employer.

Services Available

TRANSLATION of journal articles, patents, reports, manuals, etc. from German and French into English by experienced materials specialist. Outstanding quality, fast turnaround, competitive rates. For more information call Nicholas Hartmann (708) 524-1191 or fax (708) 524-1355.

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

PhD in physical chemistry/materials science with postdoctoral experience seeks applied/entrepreneurial R&D position in industry. Background in processing and characterizing electronic materials, surface preparation, growth/deposition of ultra thin films (~50 Å) and interface properties. Expertise in development of scanning probe microscopies, surface metrology, many electrical/optical characterization techniques. Excellent publication record, communication and interdisciplinary team work skills. **Employers—Please reply to Box XIX, 1101.**

AD CLOSING DEADLINES

December 1, 1994 for the
January 1995 Issue

January 1, 1995 for the
February 1995 Issue

February 1, 1995 for the
March 1995 Issue

**TO PLACE YOUR AD,
CALL MARY E. KAUFOLD
TODAY!**

(412) 367-3036