

Positions Available

RESEARCH SCIENTIST-ELECTRON MICROSCOPIST
University of New Mexico

Applications are invited for a permanent research scientist position in the Department of Geology at the University of New Mexico. The applicant should have substantial experience in characterizing the structure, morphology and chemistry of materials by analytical electron microscopy and will have responsibility for the day-to-day operation of the analytical electron microscopy laboratory (JEOL 2000FX AEM with STEM & EDS). The research will involve the characterization of metallic, ceramic and composite materials, including rock-forming minerals. Preference will be given to candidates who have experience characterizing ion beam modified materials or complex ceramic composites. Experience in x-ray diffraction crystallography would be useful. The analytical electron microscopy laboratory is part of the Electron Microbeam Analysis Facility which includes a fully-automated ARL EMX-SM electron microprobe; an automated, five spectrometer, 733 JEOL superprobe; and a Hitachi 450 scanning electron microscope. Each instrument has an EDS and is housed in specially constructed laboratories. Technical staff support the laboratories. The successful applicant will be part of ongoing research programs directed by Prof. R.C. Ewing at UNM, but he/she will also be expected to maintain their own research activities and to interact with faculty and students throughout the University in cooperative materials science research. A PhD is required; the salary is in the range of \$25,000 to \$32,000/9 months commensurate with experience. External funding will provide for the three months of summer salary. Forward a detailed resume to Prof. R.C. Ewing, Department of Geology, University of New Mexico, Albuquerque, NM 87131. Deadline for applications is *March 15, 1988*.

The University of New Mexico is an Equal Opportunity Employer.

FACULTY POSITION
Materials Science

The Division of Engineering of Brown University announces the opening of a faculty position in Materials Science available September 1, 1988. The appointment will be made at the level of Assistant Professor within the tenurable ranks of the University.

The appointee will be expected to participate fully in the teaching and research functions of the faculty, which includes teaching senior and graduate courses in Engineering and Materials Science as well as in the undergraduate engineering core curriculum, and conducting independent research in Materials Science. A research area of primary interest is the synthesis and characterization of advanced materials for mechanical or electronic applications. Expertise and experience in the use of analytic electron microscopy as a research tool and in using such techniques to relate material microstructure to physical properties are desirable. The Division of Engineering offers a close-knit interdisciplinary research community with excellent facilities in several areas of materials preparation. Currently, strong research groups are active in ceramics, composites, interface properties, thin film science, catalysis, plasticity and fracture. The applicant should have a demonstrated ability to make clear and effective oral presentation of scientific and technical material.

Interested persons should send a complete resume, including the names of at least three persons who could supply letters of reference if requested, to:

Prof. S. Suresh, Division of Engineering, Brown University,
Providence, RI 02912, USA

To ensure full consideration, applications should be received by *March 15, 1988*.

Brown University is an equal opportunity employer.

**PROGRAM MANAGER****BASIC RESEARCH
IN NONMETALLIC
STRUCTURAL MATERIALS**

The Air Force Office of Scientific Research located at Bolling AFB Washington, D.C. invites applications from qualified U.S. citizens with a background in university and/or industrial research on Materials Science of Nonmetallic Structural Materials. An earned Ph.D. is desired. The successful applicant will plan, advocate, and manage the Air Force basic research program in nonmetallic structural materials with emphasis on ceramics, ceramic composites, carbon-carbon composites and related materials science issues. A knowledge of the technical content of U.S. and foreign research in this area is desired. The position is competitive civil service GM-14 with a salary range from \$45,763 to \$59,488 per annum. No prior Government service is required. However, applicant must be certified by Office of Personnel Management for selection eligibility.

Send applications (SF71) to:

Civilian Personnel Office
1776 MSSQ/DPCA
Ann. No. 87-372
ATTN: Linda Sturdivant
Andrews AFB, MD 20331
(202) 981-6167

Applications must be received by: 28 February 1988

EQUAL OPPORTUNITY EMPLOYER

**CONDENSED MATTER
EXPERIMENT****Washington University**

The Department of Physics at Washington University anticipates a regular faculty position starting in the fall of 1988 for a solid state - materials science experimentalist. The appointment can be made at either the senior or the junior level. Candidates are sought who give evidence of excellence in scholarship, teaching, and the conduct of a vigorous and creative research program. Postdoctoral research experience is required.

Applicants should send a letter of application, vita, statement of research objectives, and the names of at least three references who have been requested by the candidate to send letters of recommendation to:

Prof. R. E. Norberg, Chairman
Department of Physics
Washington University
St. Louis, MO 63130

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

Positions Available

**CHAIR
Chemical, Bio and
Materials Engineering
Arizona State University**

The Faculty of Chemical, Bio and Materials Engineering at Arizona State University invites applications and nominations for the position of Professor and Chair. Qualifications include an earned doctoral degree and a record of achievement in teaching, research and professional service. The preferred starting date is July 1, 1988. Interested persons should submit a detailed resume and names of three or more references with addresses and telephone numbers to the Chair of the Search Committee:

Prof. Neil S. Berman
Dept. of Chemical, Bio &
Materials Engineering
Arizona State University
Tempe, AZ 85287-6006
Telephone: (602) 965-4113

Evaluation of the candidates will begin March 1, 1988 and continue until the position is filled.

*Arizona State University is an Affirmative Action/
Equal Opportunity Employer.*

**POSTDOCTORAL POSITION
Materials Science**

American Air Liquide, part of a world-wide leading manufacturer of industrial gases, is seeking a new PhD candidate to conduct R&D at one of the major academic institutions in the Chicago area. This postdoctoral research will be part of a joint research program on High Temperature Superconductors.

Qualifications include a PhD in one of the following fields:

- Materials Science
- Solid State Physics
- Physical Chemistry

Upon program completion, the successful applicant may be able to pursue their career at our Chicago research center in the field of materials processing for thin film coating and advanced materials.

Send your resume with references and possible reprints of your articles to:

Dr. Denis Rufin
American Air Liquide, Inc.
5230 S. East Avenue
Countryside, IL 60525

*equal opportunity/
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**MRS BULLETIN
1988 Advertising Rates and Policy**

The MRS BULLETIN publishes display and classified advertising of interest to MRS members and other BULLETIN subscribers. The MRS BULLETIN is published monthly. The following advertising rates are based on total insertions used in one calendar year. Rates are subject to change on 60 days written notice. Advertising contracts will be billed at prevailing rate on date the contract is received and will be honored at that rate for the duration of the contract.

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Rates

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1/2 island	500	485	475	460
1/2	450	435	420	400
1/3 island	380	370	360	350
1/3	340	330	320	310
1/4	330	320	310	300
1/6	290	280	270	260

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Metallic 2nd Color add \$385
Four Color Process add \$550

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Mary E. Kaufold
MRS BULLETIN
Materials Research Society
9800 McKnight Road
Suite 327
Pittsburgh, PA 15237
(412) 367-3036