

Positions Available

## Group Leader & Staff Members

Lawrence Livermore National Laboratory, one of the Nation's premier research & development organizations, has immediate opportunities with the Materials Division of our Chemistry and Materials Sciences Department.

The successful applicants will conduct basic and applied research in materials modification for Ion Beam Processing. We have a 200kV ion implanter and are currently installing a 4MV analysis machine.

Requirements include a PhD in Physics, Materials Science, Metallurgy, or related field, as well as some experience.

LLNL offers a competitive compensation and benefits package. For consideration forward your resume to: **Phil Harding, Professional Staffing, Lawrence Livermore National Laboratory, Dept. A90189, P.O. Box 5510, L-725, Livermore, CA 94550.** U.S. citizenship required. Equal Opportunity Employer

University of California



### CERAMIST/MATERIALS SCIENTIST American Superconductor Corporation

American Superconductor Corporation (ASC) has an immediate opening for a PhD ceramist/materials scientist with experience in the powder processing and characterization of ceramics. The person will conduct and direct programs in the preparation of ceramic superconductor powder and the characterization and testing of bulk superconductors. A strong background in materials science and standard materials characterization methods (x-ray diffraction, SEM, etc.) is necessary. American Superconductor Corporation, a leader in the development of high temperature ceramic superconductors, was founded in April 1987 to develop and commercialize ceramic superconductors for applications in electric power systems.

Interested candidates please forward your resume to:

Ms. Cady  
American Superconductor Corporation  
149 Grove Street  
Watertown, MA 02172

ASC is an EOE.

### FACULTY POSITION University of Pittsburgh

A faculty position is open in the tenure stream in the Department of Materials Science and Engineering. Applicants should have strong interests in the materials science of ceramics, preferably in electromagnetic ceramics and/or in the electron microscopy of ceramic materials. Other ceramic specializations will be considered. Preference will be given to an experienced leader in the field. Duties will include teaching graduate and undergraduate courses in ceramics and materials, and initiating and actively engaging in graduate research. Applicants should have a PhD in ceramics, materials science, or a related discipline and a successful research record.

Curriculum vitae and references should be submitted before **May 15, 1990** to:

Ceramic Search Committee  
Materials Science and Engineering  
University of Pittsburgh  
848 Benedum Hall  
Pittsburgh, PA 15261  
Attn: J.R. Blanchere

The University of Pittsburgh is an Equal Opportunity/Affirmative Action Employer.

### DIRECTOR MACROMOLECULAR SCIENCE & ENGINEERING

The UNIVERSITY OF MICHIGAN, ANN ARBOR, has substantially strengthened its commitment to macromolecular science and engineering. We seek to fill the position of Director of the Macromolecular Research Center and Chairman of the PhD Program in macromolecular science and engineering at the senior faculty level. Candidates must have a PhD, an exemplary record of original research accomplishments in the field of polymer science, the ability to provide leadership to an interdisciplinary faculty and student body, the ability to secure external funding, and the competence to teach graduate courses in polymer science. Applicants must submit a resume which includes a summary of past and proposed research, a list of publications and three letters of recommendation. Send application materials to: Prof. Frank E. Filisko, Acting Director, Macromolecular Research Center, The University of Michigan, 2200 Bonisteel Blvd., Ann Arbor, MI 48109-2099.

The University of Michigan is a nondiscriminatory, affirmative action employer.

### RESEARCH POSITIONS University of Missouri-Rolla

Applications are sought for openings that are anticipated in the next six months for postdoctoral fellows, research assistant professors, and research engineers/aides. Applicants should possess a PhD degree in materials science/engineering or related disciplines such as physics, chemistry, ceramic, metallurgical, or chemical engineering. Preference will be given to persons with relevant materials research experience. Rank and salary will be commensurate with qualifications. Applicants should send their current resume and a list of at least three references to:

Director  
Graduate Center for  
Materials Research  
University of Missouri-Rolla  
Rolla, Missouri 65401 (USA)

UMR is an Equal Opportunity/Affirmative Action Employer.

**Positions Available**

**FACULTY AND POSTDOCTORAL RESEARCH POSITIONS**

North Carolina State University  
Center for Advanced  
Electronic Materials Processing

This NSF Engineering Research Center is an interdisciplinary academic/research program involving faculty, researchers and students from the Departments of Electrical and Computer Engineering, Materials Science and Engineering, Physics, Chemical Engineering and Mechanical Engineering. The goal is to develop processing technology and equipment capability for the fabrication of advanced submicron device structures. Emphasis is on the development of process module clusters for carrying out multiple process steps in an in-situ environment. Tenure-track faculty positions and postdoctoral research positions are available for qualified applicants. The faculty appointments will be in one of the participating departments, and the successful applicants will be expected to be actively involved in the academic and research programs of the Center. The areas of interest include plasma processing, sensors, metrology, gas dynamics/surface reactions, process monitoring, process automation and control. An earned doctorate or equivalent industrial research experience is required. Interested applicants should send resumes and the names, addresses and telephone numbers of three references to: Dr. N.A. Masnari, Director, Center for Advanced Electronic Materials Processing, North Carolina State University, Box 7911, Raleigh, North Carolina 27695.

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

**GRADUATE RESEARCH  
APPOINTMENTS  
IN MATERIALS SCIENCE**

Students can receive appointments in areas of photovoltaics, superconducting films, corrosion in metals and ceramics, optical properties of materials, and other areas of materials science. Students carry out studies at WSU Tri-Cities. Research is done at Battelle Laboratories, Westinghouse Laboratories or on campus. Contact Prof. Larry Olsen, Washington State University, 100 Sprout Road, Richland, WA 99352.

*Equal Opportunity/Affirmative Action Employer.*

**Advertisers in this issue:**

Brimrose	back cover
Cahn Instruments	3
Digital Instruments	16
Elsevier Science Publishers	9
Gem Dugout	8
High Voltage Engineering Europa	inside front cover
Massachusetts Microelectronics Center	13
Materials Research Laboratory	57
Sputtered Films	11
UHV Instruments	inside back cover
Voltaix	17

**MRS Bulletin-1990 Advertising Rates**

**Rates**

**Classified:** Column inch (includes composition): \$95

**Display (Black and White):**

Ad Size	1x	4x	6x	12x
1 page	\$805	\$775	\$755	\$735
2/3	685	665	655	645
1/2 island	645	630	620	610
1/2	600	585	575	565
1/3 island	555	540	530	520
1/3	510	495	485	475
1/4	460	445	435	425
1/4 island	450	435	425	415
1/6	390	375	365	355

Standard 2nd Color add \$325

Metallic 2nd Color add \$425

Matched 2nd Color add \$375

Four Color Process add \$650

The MRS BULLETIN can accommodate special production requirements. Contact MRS for details.

**Issue**

Issue	Closing Date
May	April 5, 1990
June	May 4, 1990
July	June 6, 1990
August	July 6, 1990
September	August 6, 1990
October	September 6, 1990
November	October 4, 1990
December	November 6, 1990

**Advertising Contact**

Mary E. Kaufold  
MRS BULLETIN  
Materials Research Society  
9800 McKnight Road  
Pittsburgh, PA 15237  
(412) 367-3036  
Fax: (412) 367-4373