

Positions Available

POSTDOCTORAL CANDIDATES

The Isotope and Structural Chemistry Group (INC-1) and the Polymers and Coatings Group (MST-7) are seeking postdoctoral candidates in the area of Materials Chemistry. Successful candidates will have the opportunity to conduct research in one of a wide variety of programs including synthesis of nanocrystalline materials, organometallic chemical vapor deposition, chemical vapor infiltration, thin film processing and analysis, surface analytical chemistry and deposition process modeling. INC-1 and MST-7 maintain active collaborations with other government and academic researchers, and publication of scientific results in peer-reviewed journals is expected. Annual starting salaries range from \$38,133 to \$40,164; outstanding candidates may be considered for the prestigious J. Robert Oppenheimer Fellowship (\$60,060). Applicants should have completed or soon expect to complete a doctoral program in Chemistry, Materials Science or Physics.

For initial consideration, candidates should send a copy of their curriculum vitae and publication list to Dr. David C. Smith (Team Leader, Materials Chemistry), MS C346, Los Alamos National Laboratory, Los Alamos, NM 87545. To formally apply, interested candidates should send resume, employment application, three external letters of reference and undergraduate and graduate transcripts to Mary Ann With (MS P280), Human Resources Development Division PD-92-110, Los Alamos National Laboratory, Los Alamos, NM 87545. Affirmative Action/Equal Opportunity Employer. Must be able to obtain Department of Energy "Q" Security Clearance. Los Alamos National Laboratory is operated by the University of California for the U. S. Department of Energy.

Los Alamos

NATIONAL LABORATORY

POSTDOCTORAL POSITIONS Inorganic Nanoscale Materials Chemistry

Two positions are available for research on nanoscale electrodeposited ceramic superlattices. The ideal candidates will have research experience in electrochemistry, scanning probe microscopy, x-ray diffraction, or surface crystallography. One position will involve a study of epitaxial growth in these layered materials by potential-step transient analysis, scanning tunneling microscopy, and x-ray diffraction. The other position will focus on mapping out the composition profile in the superlattices on a nanometer scale using the scanning tunneling microscope and x-ray diffraction. An earned PhD in materials science and engineering or chemistry is required. Send resume, and names and telephone numbers of three references to: Professor Jay A. Switzer, Graduate Center for Materials Research, University of Missouri-Rolla, Rolla, MO 65401.

UMR is an Equal Opportunity Employer

POSTDOC RESEARCHER HIGH T_c SUPERCONDUCTIVITY Interuniversity Micro-Electronics Center (IMEC)

IMEC is involved in different national and international projects of superconductivity, in which microwave applications play a major role. In IMEC, the actual work on superconductivity is concentrated on the growth of YBaCuO-multilayers by laser ablation. The Interuniversity Micro-Electronics Center in Leuven is looking for a researcher specialized in high T_c superconductivity. Candidates are expected to have a PhD in the field of superconductivity with interest in high T_c. Besides the actual experimental work, project management and prospecting will be responsibilities of the new group member. Interested candidates can send their resumes to: Prof. G. Borghs, IMEC vzw, Kapeldreef 75, 3001 Leuven, Belgium; tel. 32-16-281 287; fax 32-16-281 501.

TENURE-TRACK POSITION University of Minnesota Department of Chemical Engineering and Materials Science

Department of Chemical Engineering and Materials Science, University of Minnesota, seeks PhD with strong background in theoretical materials science with the emphasis on electronic materials to fill position as assistant (tenure-track) or associate (tenure-track or tenured) professor. Assistant professor candidates should have a distinguished academic record, outstanding potential for establishing an independent research program, and a commitment to both undergraduate and graduate instruction in chemical engineering. Associate professor candidates should have the same qualifications plus several years of quality teaching and/or research experience and a proven publication record. Send nominations and applications with resume and list of three references by **December 15, 1992** to Professor James R. Chelikowsky, 151 Amundson Hall, University of Minnesota, 421 Washington Ave. SE, Minneapolis, MN 55455.

The University of Minnesota is an equal opportunity educator and employer.

FACULTY POSITION IN MATERIALS SCIENCE AND ENGINEERING Lehigh University

The Department of Materials Science and Engineering at Lehigh University has an opening at the assistant professor level in the area of theoretical modeling and/or computer simulation of materials' processes. This tenure-track position is available to be filled in August 1993. Applicants should have a doctorate in materials science or a related discipline, and demonstrated or potential for distinction in research and teaching at both the undergraduate and graduate levels. The successful candidate will be expected to interact effectively with existing programs, as well as developing an independent funded research program.

Curriculum vitae and the names of three references should be sent to:

Professor Helen H. Chan
Chairperson, Search Committee
Materials Science and Engineering
Five East Packer Avenue
Lehigh University
Bethlehem, PA 18015-3195

Lehigh University is an equal opportunity employer and welcomes applications from all qualified candidates.

Positions Available

**The Swiss Federal Institute of Technology, Lausanne
is seeking for its Ceramics Laboratory**

A SENIOR SCIENTIST

Sputtering of Ferroelectric Thin Films

The Ceramics Laboratory of EPFL has an opening for a senior scientist in the area of sputtering of ferroelectric oxides.

Responsibilities include leading of research projects, guidance of doctoral students, own processing/properties-related research and further developments of the facilities. Extensive experience in vacuum deposition methods and a few years postdoctoral research in sputtering of complex oxides are required. Please apply with CV and references to:

Service du personnel de l' EPFL
Pavillon C - Ecublens
1015 Lausanne.

VISITING PROGRAM DIRECTOR & PROFESSOR (Position number 55120)

PhD in theoretical condensed matter physics, and research experience in areas such as superconductivity, heavy fermion systems, modulated structures, low-temperature and high magnetic field phenomena, dilute magnetic semiconductors, etc.; the successful applicant will develop programs relative to the unique high magnetic field capabilities of the NHMFL. Application deadline:

November 15, 1992. Send applications to:

James Ferner
NHMFL
1800 East Paul Dirac Drive
Tallahassee, FL 32306-3016
(904) 644-0311

Florida State University is an equal opportunity/affirmative action employer.

Positions Wanted

Materials Scientist/Surface Analyst: PhD 1989 with three years of postdoctoral experience, seeks R&D and/or faculty opportunities. Specialized in SIMS, XPS, SEM, FTIR, S. ellipsometry and XRD. Experienced in metal oxides and thin-film deposition (sputtering and plasma) and analysis of semiconductors. Also interested in diamondlike C films, superconductors, and magnetic materials. Please reply to **Box No. 101**.

German Physicist: 1992 PhD in materials research, seeks permanent or postdoctoral position in industrial or academic R&D. Experienced in solid-state physics, dielectric properties of single crystals and ceramics, ceramic processing, and especially in computer simulations. Please reply to **Box No. 102**.

TO REPLY TO BOX NUMBER, WRITE:

Box No. _____, c/o MRS Bulletin, Materials Research Society, 9800 McKnight Road, Pittsburgh, PA 15237

Advertisers in This Issue:

	Page No.
BOMEM	17
Cree Research	6
EG&G PARC	5
EG&G Ortec	2
FEI Company	9
The Gem Dugout	13
Goodfellow Corporation	16
High Temperature Engineering	31
High Voltage Engineering	back cover
Huntington Laboratories	1
Mellen Corporation	19
Nikko Trading Corporation	40
Park Scientific	inside back cover
Perkin Elmer	inside front cover
Princeton Gamma Tech	18
Pure Tech Inc.	15
Rigaku	10
Rudolph Research	12
VCH Publishers	70
Virginia Semiconductors	20
Voltaix	23

For free information about the products and services offered in this issue, fill out and mail the Reader Service Card, or FAX it to (312) 922-3165.

**Ad closing for the December
MRS Bulletin is
November 1, 1992.**

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