

Positions Available

POSTDOCTORAL CANDIDATES

The Polymers and Coatings Group (MST-7) of the Materials Science Division at Los Alamos National Laboratory is seeking postdoctoral candidates interested in research on high-rate, physical vapor deposition (PVD) of high-quality optical materials utilizing innovative processes. This research is expected to be a collaboration between the Laboratory staff and industry. A new Materials Science Laboratory (MSL) that is soon to be commissioned at the Laboratory is expected to house many interdisciplinary collaborations such as this optical materials project.

The successful candidate will have the opportunity to conduct research at the MSL in areas such as PVD processes, ion-beam technology and optical film properties. Interaction and collaboration with government, academic and industrial scientists will be an integral part of this program. Publication of scientific results is expected. Applicants should have, within the past three years, completed or expect to complete a doctoral program in Physics, Applied Science, Engineering or Materials Science. Annual starting salaries range from \$39,660 to \$41,770.

For initial consideration, candidates should send curriculum vitae and publication list to Mary Anne With (MS P280), Human Resources Development Division **PD-93-125**, Los Alamos National Laboratory, Los Alamos, NM 87545 and Dr. Marion Scott, MS E549, MST-7, Los Alamos National Laboratory, Los Alamos, NM 87545. Affirmative Action/Equal Opportunity Employer. Los Alamos National Laboratory is operated by the University of California for the U. S. Department of Energy.

Los Alamos
NATIONAL LABORATORY

**TENURE TRACK FACULTY POSITION
IN THE AREA OF POLYMERIC
MATERIALS SCIENCE & ENGINEERING**

The MATERIALS SCIENCE & ENGINEERING DEPARTMENT at VIRGINIA TECH is seeking qualified candidates for a tenure-track faculty position at the assistant professor level. The position is available as of July 1, 1993. Candidates are sought who wish to combine a strong desire for excellence in undergraduate and graduate teaching in a general Materials Science & Engineering curriculum with development of a funded research program in the broad area of polymer science & engineering. Candidates should have an earned doctorate in an appropriate field of science or engineering, and should share the common departmental interest of strengthening a growing, dynamic program which has activities in a broad range of material forms including ceramics, metals, polymers, composites, and electronic materials. The successful candidate will have strong interests in interacting with both academic and industrial concerns in the field of polymer engineering.

Salaries are competitive and dependent upon the qualifications of the candidate. Applicants must submit the following: (1) a cover letter discussing specific teaching and research interests; (2) a complete curriculum vitae; (3) a list of publications; (4) a reprint of their most significant publication; and (5) the names of at least three references.

Please submit complete application packet by **June 1, 1993** to:
Search Committee Chair
Materials Science & Engineering Department
Virginia Polytechnic Institute & State University
Blacksburg, Virginia 24061-0237
Phone: (703) 231-6640
Fax: (703) 231-8919

Screening of applications will begin as soon as possible, and will continue until a suitable candidate is identified. The Virginia Polytechnic Institute & State University is an affirmative action, equal opportunity employer, and welcomes applications from all qualified candidates.

Women and minorities are encouraged to apply.

Would you or someone you know like to —

sample

MRS Membership?

**Half-year memberships
are available—**

July – December 1993.

For details contact:

MRS Membership Dept.
9800 McKnight Rd.
Pittsburgh, PA 15237

Phone: (412) 367-3003
Fax: (412) 367-4373

Coming in May...

Guest Editor James F. Belak, Lawrence Livermore National Laboratory, will focus on Nanotribology. Articles on Theory and Modeling and on Experimental Nanotribology are planned.

Ad closing for the May MRS Bulletin is

April 1, 1993.

To place your ad, call

Mary E. Kaufold at (412) 367-3036 today!

Positions Available

POSTDOCTORAL POSITION IN SOLID-STATE/MATERIALS THEORY
Sandia National Laboratories,
California

The Materials Theory Group at Sandia National Laboratories in Livermore, California has an immediate opening for a postdoctoral appointment. The group has ongoing research activities in applications of solid-state theory to materials. Areas of specialty include band structure calculations, semi-empirical atomistic calculations, and macroscopic modelling. Interests have included alloys, clusters and growth of surface layers, dislocation structure and dynamics, structure of grain boundaries, and fracture.

Candidates for this position should send a resume (with names of references), copies of selected published papers, statement of research interests, and uncertified copies of college transcripts to:

Dr. Murray Daw
c/o Marge York, Personnel,
8522-S13
Sandia National Laboratories
P.O. Box 969
Livermore, CA 94551-0969

Deadline is **April 15, 1993**. U.S. Citizenship is required.

Equal Opportunity Employer M/F/V/H.

STAFF POSITION IN SOLID STATE/MATERIALS THEORY
Sandia National Laboratories,
California

The Materials Theory Group at Sandia National Laboratories in Livermore, California has an immediate opening at the staff level. The group has ongoing research activities in applications of solid-state theory to materials. Areas of specialty include band structure calculations, semi-empirical atomistic calculations, and macroscopic modelling. Interests have included alloys, clusters and growth of surface layers, dislocation structure and dynamics, structure of grain boundaries, and fracture.

Candidates for this position should send a resume (with names of references), copies of selected published papers, statement of research interests, and uncertified copies of college transcripts to:

Dr. Murray Daw
c/o Marge York, Personnel,
8522-S12
Sandia National Laboratories
P.O. Box 969
Livermore, CA 94551-0969

Deadline is **April 15, 1993**. U.S. Citizenship is required.

Equal Opportunity Employer M/F/V/H.

Technical University of Darmstadt



Professorship for Surface Research

(Kenn-Nr.: 10)

Applications are invited for the above Chair (C4 full professor) at the Materials Science Department of the Technical University of Darmstadt. The successful applicant would be required to lecture at the undergraduate and graduate level. The focus of research should be on surfaces and interfaces of materials, especially such relevant for micro-electronic components. This includes reactions, mechanisms and the characterization of interfaces and relevant experimental techniques. Close cooperation with other groups of the Department is expected.

The Society for Heavy Ion Research in Darmstadt (GSI) expects collaboration for the modification of materials surface properties by ion implantation.

Applications, including curriculum vitae certificates and list of publications are requested to: Präsident der Technischen Hochschule Darmstadt, Karolinenplatz 5, 6100 Darmstadt, Germany

POSTDOCTORAL POSITION
Queen's University
Kingston, Ontario

A person with experience in MOCVD deposition would have the opportunity to work with a new MOCVD/PECVD system being installed in May 1993 for the deposition and evaluation of copper metallisations for advanced microcircuits. A PhD in materials science, chemical engineering, or physics background and interests in modelling the kinetics of the deposition process is required. The position is tenable for one year, renewable subject to review.

A curriculum vitae and the names of three references should be sent to Dr. M. Sayer, Department of Physics, Queen's University, Kingston, Ontario, Canada K7L 3N6, preferably by **May 1, 1993**. Position open until filled.

Queen's University is an Equal Opportunity Employer.

FACULTY OPENINGS

School of Materials Engineering
Purdue University

The School of Materials Engineering expects to have tenure-track faculty openings for the 1993-94 academic year. Starting rank is expected to be at the assistant professor level with higher rank possible for exceptional cases. Candidates must have a PhD in some area of materials science and engineering. Successful candidates will be expected to conduct effective teaching at undergraduate and graduate levels. A strong interest in both teaching and research is vital. Several opportunities exist to interact and collaborate with various materials programs on campus and to utilize central facilities. Areas of expertise are open with special consideration given to aspects of electro-ceramics, polymers, and materials processing.

All applications received by **May 1993** are assured full consideration but the search will continue until the positions are filled. Starting dates will be after July 1993.

Resume and the names and addresses of three references should be sent to:

Professor G.L. Liedl, Head
 School of Materials Engineering
 Purdue University
 1289-MSEE Building
 West Lafayette, IN 47907-1289

Purdue University is an Equal Opportunity/Affirmative Action Employer

ASSOCIATE MATERIALS SCIENTIST/CERAMIST
Ames Laboratory

The Metallurgy and Ceramics Program at Ames Laboratory has an open position for an Associate Materials Scientist/Ceramist. This position requires solid knowledge of the role of ceramic microstructures on the mechanical properties of ceramics and ceramic composites. The applicant is expected to develop necessary engineering designs on high-temperature, high-vacuum equipment to perform creep and crack growth studies. Qualifications include a PhD in Materials Science/Ceramics with some publication record in mechanical properties of ceramics. The applicant is further expected to interact strongly with Ames Laboratory and Iowa State University Materials Science and Engineering Department staff dedicated to advanced materials synthesis and processing. Competitive salary. Please submit resume plus the names and addresses of three references to: Ames Laboratory Personnel Office, 127 Spedding Hall, Iowa State University, Ames, IA 50011. Attention: Dr. O. Buck. Application deadline of **April 30, 1993**, or until position is filled.

An equal opportunity/affirmative action employer.

Positions Available

**TENURE-TRACK FACULTY POSITION
Materials Department
University of California at Santa Barbara**

The Department of Materials at the University of California at Santa Barbara invites applications for a tenure-track faculty position, available July 1, 1993, in the area of advanced structural materials with emphasis on processing and manufacturing. The Department has a multidisciplinary focus on such areas as structural composites, compound semiconductors, electro-optical polymers, ferroelectrics, and catalysts. Applicants should have a desire to pursue interdisciplinary research within the framework of the Department and the College of Engineering research centers. Individuals are encouraged to apply who have particular interests in analysis, modeling, design, monitoring and control; the development, integration and implementation of micro- and macromodels for the design of optimal processing routes and for predicting the parameters needed to achieve desirable combinations of microstructure and mechanical properties; and the fundamental understanding of emerging technologies for metals, ceramics, intermetallics and their composites.

Responsibilities include teaching both undergraduate and graduate courses and developing a strong research program. A Ph.D. or equivalent degree and evidence of excellence in teaching and research are required; industrial experience or evidence of strong university-industry collaboration in advanced structural materials is highly desirable. Senior level appointments with tenure can be made based on an outstanding record of research. A joint appointment with other Departments in the College of Engineering is possible.

To ensure full consideration, applications should be received by the Department by **April 30, 1993**. Candidates should send a resume containing teaching and research accomplishments and the names of at least three references to:

Professor Carlos G. Levi
Associate Chair, Materials Department
University of California
Santa Barbara, CA 93106

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

**FACULTY POSITION
MATERIALS SCIENCE
AND ENGINEERING**

North Carolina State University

Applications for a tenure-track position at the assistant or associate professor level are invited. A PhD degree in materials or a related discipline is required, with expertise in theoretical methods and computational modeling techniques. Atomic, molecular, transport, processing, or structural modeling are appropriate areas of interest. An externally funded research program must be developed and teaching responsibilities will include undergraduate and graduate courses. Three references must be included. Applications are due **May 1, 1993**. Send to: Professor R.O. Scattergood, Search Committee, Dept. of Mat. Sci. & Engr., Box 7907, North Carolina State University, Raleigh, NC 27695-7907, (919) 515-7843 or 2377.

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

**DEAN
SCHOOL OF ENGINEERING
University of Pittsburgh**

The University of Pittsburgh invites applications and nominations for the position of Dean of the School of Engineering. Pittsburgh, long recognized as one of the nation's most liveable cities, presents a unique engineering environment employing over 25,000 engineers and scientists and maintaining over 170 research laboratories. Founded in 1787, the University of Pittsburgh is one of the oldest institutions of higher education in the United States. A strong, research-oriented university with a commitment to high-quality education, Pitt is a long-time member of the Association of American Universities (AAU), the prestige group of research universities.

In its second century of educating engineers, the School of Engineering consists of a distinguished faculty of 123, along with fifteen hundred undergraduate and eight hundred graduate students. The School offers undergraduate and graduate engineering programs in chemical and petroleum, civil, electrical, industrial, mechanical, and materials science. Besides the strong research programs in each of these areas, the School recently implemented new interdisciplinary thrusts in bioengineering, manufacturing systems, and advanced materials.

The successful candidate should possess an earned doctorate in engineering, a distinguished record as a scholar showing commitment to excellence in teaching and research, a vision for the future of engineering education, the ability to provide motivational leadership, a commitment to planning and development, demonstrated administrative and organizational abilities, effective communication and interpersonal skills, an interest in fund raising, and the desire to continue to enhance the national and international prominence of the School.

The position is available September 1, 1993. Applicants should submit a curriculum vita and the names of three references to:

Professor Savio L.Y. Woo, Chair
Engineering Dean Search Committee
801 Cathedral of Learning
University of Pittsburgh
Pittsburgh, PA 15260

To ensure full consideration, applications must be received before **July 1, 1993**.

Women and minorities are encouraged to apply. The University of Pittsburgh is an affirmative action, equal opportunity employer.

**FACULTY POSITION IN MATERIALS SCIENCE AND ENGINEERING
The Johns Hopkins University**

The Materials Science and Engineering Department at The Johns Hopkins University is seeking applicants to fill a tenure-track position. The applicants selected will be expected to teach at both the undergraduate and graduate levels, as well as to develop innovative research programs. Genuine commitment to excellence in teaching and supervision of graduate students research is essential. Applications from candidates whose technical interests are in the areas of biomaterials, ceramics, composites, electronic materials, and polymers would be most welcome. Current faculty conduct research in art conservation science, biomaterials, corrosion and electrochemistry, materials characterization, mechanical and physical properties of thin films and nanomaterials, and nondestructive evaluation.

Candidates should submit a resume which includes their professional achievements as well as the names, addresses, and telephone numbers of at least three references. Applicants for positions other than Assistant Professor should have a demonstrated record of extensive research support.

Applications should be submitted to:
Professor Robert E. Green, Jr.
Chairman
Department of Materials Science & Engineering
The Johns Hopkins University
Baltimore, MD 21218

The Johns Hopkins University is an equal opportunity, affirmative action employer.

Positions Available

**RESEARCH STAFF MEMBER
PLASMA MODIFICATION
OF MATERIALS**

The Engineering Research Center for Plasma-Aided Manufacturing at the University of Wisconsin-Madison will be hiring a research staff member in the area of Plasma Modification of Materials. Duties include, but are not limited to: development of plasma implantation processes and experiments for a wide range of materials such as semiconductors, glasses, polymers and ceramics. The processes are designed to modify material properties such as wear, lubricity, solubility, porosity, and conductivity. Experience with implantation processes, applications of implanted materials, plasma diagnostics and/or surface characteristics would be very desirable. The level of the appointment is dependent upon background and experience. The initial appointment is for one year, and is renewable contingent upon performance and funding availability. The Engineering Research Center for Plasma-Aided Manufacturing is a cross-disciplinary program supported by the National Science Foundation and a consortium of 30 companies. Persons interested in this position should send a curriculum vita to Professor J.L. Shohet, Director, Engineering Research Center for Plasma-Aided Manufacturing, University of Wisconsin-Madison, 1410 Johnson Drive, Madison, Wisconsin 53706.

The University of Wisconsin-Madison is an EO/AA employer.

**FACULTY POSITION
Department of Materials
Science and Engineering
Case Western Reserve University**

Applications are sought for a tenure-track faculty position effective July 1, 1993 or later. The search is directed at the assistant/associate professor level. The successful candidate will demonstrate accomplishments and potential for excellence in teaching and research. The individual will develop and conduct research in electronic materials: bulk crystal growth, characterization and numerical simulation of processing. The successful candidate will lead the development of cross-disciplinary programs in microgravity. Requirements include: expertise and experience in bulk crystal growth, characterization of electronic materials, and numerical simulation of processing; experience in microgravity research; demonstrated project development and project management skills for externally funded research; and a PhD in Materials Science or related area. Women and minorities are encouraged to apply.

Applicants should send a curriculum vitae and names of three references to: Professor Joe H. Payer, Chairman; Department of Materials Science and Engineering, Case Western Reserve University, Cleveland, Ohio 44106. Filling of the position is subject to available funds.

CWRU is an Equal Opportunity/Affirmative Action Employer.

**PROFESSORS IN THE DEPARTMENT OF PHYSICS
The University of the West Indies
Mona Campus, Jamaica**

The University of the West Indies (UWI) is seeking candidates for two Chairs, one in Physics and one in Applied Physics. The professors are expected to contribute significantly to the development of the discipline, and to lead major research programs in the Department of Physics.

The University will make every effort to provide the appointees with funding for postdoctoral fellowships, research assistants, research students, and for conference travel. Fund raising through grants will be encouraged. As a result of recent upgrading, salaries are competitive. Comfortable housing will be provided at nominal rentals, and other attractive perquisites are offered. Consultancies are allowed within the University rules. Salary package including entertainment and housing allowances in the range of **J\$895,818-J\$1,094,268 per annum.**

Interested persons are invited to apply to: **The University Registrar, Attention: Assistant Registrar (Centre), Office of Administration, The University of the West Indies, Mona, Kingston 7, JAMAICA**, from whom further particulars are available. Applicants should submit full curriculum vitae and outline their present main field of research and programs they would wish to pursue at UWI. The names and addresses of three (3) references should also be included. Closing date for applications—**April 15, 1993.**

Positions Wanted

Materials Growth and Characterization (thin-film/multilayer): MS(E.E., May 1993), BS(Phys., 1986) with 5 years research/teaching experience, seeks processing staff and/or R&D opportunities. Specialized in thin-film deposition (CVD and PLD) and analysis (AES, FTIR and XRD) of diamond and metal nitride films. Also interested in dielectric and superconducting films. Please reply to **Box No. XVIII, No. 301.**

PhD from MIT. 15 years experience in R&D and manufacturing of ceramics, abrasives, minerals, and metals. Personally invented, developed, manufactured, and commercialized many successful products. Reduced millions production costs. Many publications and patents. Excellent bottom line performance and team player. Also teach in colleges. Please reply to **Box No. XVIII, No. 302.**

**TO REPLY TO BOX
NUMBER, WRITE:**
Box _____, No. _____, c/o MRS Bulletin
Materials Research Society
9800 McKnight Road
Pittsburgh, PA 15237

Editor's Note: This month's **POSTERMINARIES** has been pushed off the page, falling victim to its own *raison d'être* (see *MRS Bulletin XII* (1) 1987, p. 88). Because the number of Bulletin pages, *N*, must satisfy $N = 0 \pmod{8}$, little choice was left but to terminate this issue at the end.