Positions Available

ASSISTANT/ASSOCIATE PROFESSOR
Department of Metallurgical Engineering
University of Missouri-Rolla

The Department of Metallurgical Engineering is seeking applications for possibly two tenure-track positions in the area of manufacturing/physical metallurgy. Candidates should have an earned doctorate in metallurgy/materials or a related field, and demonstrated ability in funded research and in teaching.

Successful candidates will be required, in association with existing faculty, to establish and conduct research programs in one or more areas of manufacturing/physical metallurgy, such as thermomechanical processing, near-net shape casting, powder metallurgy and high temperature materials. Other duties will include teaching undergraduate and graduate courses, and professional service to the department, campus and industry.

Further details may be obtained, in strict confidence, by contacting Dr. John L. Watson at the address below. It is hoped that appointments will be made either mid-August 1989 or January 1, 1990. An initial application deadline is set at **May 1, 1989,** however the search will continue until the positions are filled.

Dr. John L. Watson, Chairman
Dept. of Metallurgical Engineering
218E McNutt Hall
University of Missouri-Rolla
Rolla, MO 65401 (314-341-4724)

The University of Missouri-Rolla is an Equal Opportunity/Affirmative Action Employer.

ÉCOLE POLYTECHNIQUE
POSTE DE PROFESSEUR
Département de Génie métallurgique

Le poste:

Le département de génie métallurgique de l'École Polytechnique sollicite des candidatures pour combler un poste de professeur. Sous l'autorité du directeur du département, le candidat choisi sera appelé à participer à l'enseignement à tous les niveaux d'études. Il devra également participer à des activités de recherche et développer un axe de recherche.

Les domaines d'enseignement couvrent la science et le génie des matériaux. Le domaine de recherche pour sa part se situe dans l'axe des céramiques et des réfractaires. Notamment le candidat choisi devra s'intégrer à une équipe de recherche existante dont l'activité porte sur l'étude du comportement à haute température des céramiques et des réfractaires (choc thermique, fatigue thermomécanique, dégradation). Une expérience pertinente est nécessaire.

L'entrée en fonction devra se faire le 1er juillet 1989.

Qualifications:

Maîtrisant le français parlé et écrit, le candidat ou la candidate doit être membre de l'Ordre des Ingénieurs du Québec ou habilité à le devenir. Il ou elle doit avoir obtenu un doctorat (PhD) en métallurgie ou en génie des matériaux ou posséder une expérience jugée équivalente. La préférence sera donnée à celui ou à celle qui a déjà acquis une expérience dans le domaine des céramiques ou des réfractaires.

Traitement et avantages sociaux:

Le traitement et les avantages sociaux seront déterminés conformément aux politiques en vigueur à l'École Polytechnique.

Les dossiers de candidature, avec curriculum vitae et références, doivent parvenir avant le 1er mai 1989, à:

Le Directeur des affaires professorales
École Polytechnique
C.P. 6079, succursale A
Montréal (Québec) H3C 3A7

N.B.: Conformément aux exigences du Canada en matière d'immigration, la priorité sera accordée aux citoyens canadiens ou aux résidents permanents.

POSTDOCTORAL POSITION IN MECHANICAL PROPERTIES
Materials and Chemical Sciences Division

Washington State University has an opening for a postdoctoral position in mechanical property studies. The work will focus on strength, ductility and toughness of intermetallic compounds in both bulk and thin film form. A special capability in fracture mechanics and related areas is required.

Send resume and the names of three references to Prof. J.P. Hirth, Mechanical and Materials Engineering Department, Washington State University, Pullman, WA 99164-2920.

WSU is an EO/AA educator and employer. Protected group members are encouraged to apply.

FACULTY POSITION
Analytical Microscopist/ Materials Scientist

Applicants are sought for a full-time tenure-track position at the assistant professor level. A strong background in analytical electron microscopy and a PhD in materials science or a related discipline is required. Candidates should be interested in teaching undergraduate and graduate courses and in developing a strong research program. Proposed starting date is negotiable. In order to ensure full considerations, applications should be received by **May 1, 1989.**

Hiring is contingent upon eligiblity to work in the United States. Send resume, publications and names of three references to:

Prof. L.D. Marks
Northwestern University
Department of Materials Science and Engineering
Evanston, IL 60208, USA

Northwestern is an Affirmative Action Equal Opportunity Employer.

FACULTY POSITION
CERAMICS/MATERIALS SCIENCE

The Department of Metallurgy and Materials Science at Polytechnic University is seeking a ceramics/materials scientist at the associate or full professor level on a tenure track. The post would involve teaching at the undergraduate and graduate level, and research in the area of ceramics. Applicants should have an established research reputation, and compensation will be commensurate with experience. The post is available for the Fall 1989 semester. Currently, the Department is active in composite, superconductor and electronic materials research. Interested persons should submit a resume and three references to:

Prof. Harold Margolin
Chairman of Search Committee
Metallurgy & Materials Science
Polytechnic University
333 Jay Street
Brooklyn, NY 11201

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Positions Available

FACULTY POSITION IN POLYMERIC AND COMPOSITE MATERIALS PROCESSING

Applications are invited for appointment to a tenure-track position in the Department of Chemical Engineering at Michigan State University. This position is jointly supported by the Composite Materials and Structures Center (CMSC) and provides an excellent opportunity for an individual with research and teaching interests in polymeric material science and engineering, polymer processing and/or composite processing. Candidates should have a doctorate in Chemical Engineering or Polymer Science/Engineering. The desired qualifications include an established record of research in an academic or industrial environment, and a vigorous interest in undergraduate and graduate education. Michigan State has recently made a strong commitment to composite materials with the establishment of the CMSC in the College of Engineering. This provides faculty with the opportunity to conduct individual and joint research programs and to teach in an academically rich and well-supported environment containing state-of-the-art research equipment and facilities. In addition, Michigan State is located in close proximity to a large number of polymeric and composite materials industrial concerns providing many consulting and collaborative research opportunities. Applications will be accepted until **April 1, 1989** or until the position is filled. Interested individuals should apply to Dr. L.T. Drzal, Chairperson, Search and Selection Committee, Department of Chemical Engineering, Michigan State University, East Lansing, MI 48824-1226. Appointments may be made at any level. Salary and rank are commensurate with experience and accomplishments.

Michigan State University is an Affirmative Action/Equal Opportunity Employer and welcomes applications from women and members of minority groups.

SENIOR RESEARCH POSITION
Metal Surface and Oxide Film R&D

Boundary Technologies provides R&D services on a contract basis in the area of metal surface properties, treatments and films. Clients are in the electronics, aerospace, primary metal and specialty metal fabrication industries, as well as government agencies.

A materials scientist is needed for applied research on electrical and physical properties of oxide films. Projects include identification of structural determinants of electrical properties of aluminum oxide films grown by different processes and thermal oxidation of intermetallic compounds.

Applicants should have a PhD in materials science, physics, or chemistry. Experience with vacuum and high temperature apparatus and with measurement of electronic and dielectric properties of insulators is essential.

We want someone who can shape a research program, is a good experimentalist, and can do innovative independent research within a small group. Responsibilities include interaction with the client to relate new information about materials properties to possible commercial applications. Experience with preparation of research proposals is desirable.

Boundary Technologies offers a competitive salary and benefits package including relocation expenses. Qualified applicants should send resumes, with salary history, to Dr. Robert S. Alwitt, Boundary Technologies, Inc., 366 Lexington Drive, Buffalo Grove, IL 60089.

Equal Opportunity Employer

POSTDOCTORAL POSITION COMPUTER MODELING OF MECHANICAL PROPERTIES OF SOLID INTERFACES
Argonne National Laboratory

The Materials Science Division has a postdoctoral opening in the area of "MODELING and THEORY of INTERFACES." The mechanical properties to be investigated at the atomistic level include elasticity, plasticity, and fracture of metal, alloy, semiconductor and ceramic bicrystals as well as composition-modulated superlattice materials. Methods applied involve molecular-dynamics, Monte-Carlo, lattice-dynamics and lattice-statics atomistic simulation methods in close interaction with a variety of experimental programs. A PhD in theoretical mechanics, theory of elasticity, plasticity and/or fracture, solid state theory, or a related theoretical area is required. Only applicants within 3 years of their PhD degree date will be considered. For more technical information, contact Dr. D. Wolf, (312) 972-5205. Resume and three letters of recommendation should be forwarded to: **Walter D. McFall, Box J-MSD-2W, ARGONNE NATIONAL LABORATORY, 9700 South Cass Avenue, Argonne, IL 60439.**

Argonne is an equal opportunity/affirmative action employer.

ELECTRON OPTICS SPECIALIST

An excellent faculty level position as a Professional Specialist in electron optics is available. Major duties are to aid in the facilities development and maintenance, and to assist users with Scanning Transmission Electron Microscopy (JEOL 100C), Scanning Electron Microscopy (ISI 60A) and Energy Dispersive X-ray Spectroscopy (PGT-1000) studies of inorganic and metallic materials. Applicant must have MS or PhD in Materials Science or equivalent prior experience. Additional responsibilities will include teaching laboratory courses in electron optics and instrument use. Experience with instrument interfacing and programming is desirable. Preference will be given to those applicants with a breadth of skills in materials research. Salary commensurate with experience and background.

Applicants should send a vitae, description of salary requirements and names of three references to Albert E. Miller, Professor and Chairman, Department of Materials Science and Engineering, University of Notre Dame, Notre Dame, Indiana 46556.

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

FACULTY POSITION
Materials Science and Engineering Stevens Institute of Technology

The Department of Materials Science and Engineering is seeking applicants for a tenure-track position at the assistant, associate or full professor level. Earned doctorate is required. The candidate should have a strong research background in transmission electron microscopy and surface/interface studies. Applicants are expected to teach undergraduate and graduate courses and to develop an independent research program. The successful applicant will be in charge of the electron microscopy facility of the Advanced Technology Center for Surface Engineered Materials.

Interested applicants should send a curriculum vitae, list of publications and the names of three references to: Dr. Bernard Gallois, Head, Department of Materials Science and Engineering, Stevens Institute of Technology, Hoboken, NJ 07030.

Stevens Institute of Technology is an affirmative action/equal opportunity employer.

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Positions Available

ASSISTANT RESEARCH ENGINEER
Department of Materials Science & Mineral Engineering
University of California, Berkeley

Assistant research engineer position to supervise research on solders used in packaging electronic devices. This involves a program to improve the mechanical properties of lead-tin alloy based solders while maintaining good solderability. Research using scanning electron microscope and tensile machine for fatigue tests. Act as a scientific representative for research group to industry presenting our facilities and the research group's capabilities in developing research required by industry.

PhD degree or equivalent in materials science or related field. Special knowledge in lead-tin systems and surface properties. Background and experience in mechanical-behavior testing and metallographic analysis. Experience in public relations in the scientific field.

Salary range: $47,600-$55,000/year depending on qualifications. Send resume and name/address of three references by **April 30, 1989** to Prof. J.W. Morris, Jr., Materials Science & Mineral Engineering, University of California, Berkeley, 278 Hearst Mining Bldg., Berkeley, California 94720.

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

KYOCERA CHAIR OF CERAMIC ENGINEERING
Department of Materials Science and Engineering
University of Washington

An endowed chair position at the level of full professor is available at the University of Washington in the area of ceramic science and engineering. This position is a tenured faculty position endowed by the Kyocera Corporation.

To apply, send a letter of application, current resume, list of interest areas in teaching at both undergraduate and graduate levels, and names of three references to:

Ilhan A. Aksay
Search Committee Chairman
Department of Materials
Science and Engineering
University of Washington
265 Wilcox Hall, FB-10
Seattle, WA 98195
Telephone (206) 543-2625
Fax (206) 543-6381

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Ad Closing	Issue
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July 10, 1989	August
August 11, 1989	September
September 11, 1989	October
October 10, 1989	November
November 10, 1989	December

Advertising Contact: Mary E. Kaufold, MRS BULLETIN, Materials Research Society, 9800 McKnight Road, Suite 327, Pittsburgh, PA 15237; telephone: (412) 367-3036, fax: (412) 367-4373.

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