

Positions Available

**VISITING RESEARCH SCIENTISTS
High Resolution Electron Microscopy**

The A.S.U. Facility for High Resolution Electron Microscopy, a national Facility supported by the NSF Division of Materials Research, National Facilities Program, has funds to support visiting scientists from U.S. laboratories. The objective is to facilitate the interactions of the Facility-associated faculty and staff with U.S. leaders in those areas of science where the special expertise of the Facility has known, or potential, impact so that projects of the Facility may be more clearly directed towards the major current problems in research on materials. The visitors, although not necessarily electron microscopists themselves, should be interested in possible applications of the advanced techniques available in the Facility to problems in their own special areas of research.

Visitors may be supported for a few weeks or months or obtain a supplement for a sabbatical leave period. For further information regarding the Facility or to investigate possibilities for support under this scheme, please contact: Director, ASU Facility for HREM, Center for Solid State Science, Arizona State University, Tempe, AZ 85287-1704. Telephone (602) 965-4544.

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

**ASSISTANT PROFESSOR
Pennsylvania State University**

A tenure-track faculty position at the assistant professor level is available within the Metals Science and Engineering Program. Potential applicants and nominees must have strong academic record, outstanding potential for independent research, and a commitment to teaching both undergraduate and graduate students. Individuals with research and teaching interests in materials processing, particularly as related to electronic and other advanced materials, are especially encouraged to apply. Interviews for the position will commence in March 1991 and will continue until a candidate is chosen. Send resumes to: K. Osseo-Asare, Metals Science and Engineering Program, Steidle Building, Pennsylvania State University, University Park, PA 16802.

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**FACULTY POSITIONS AVAILABLE
University of Washington
Department of Materials Science and Engineering**

Up to four tenure-track faculty positions are available at the assistant, associate or full professor level for scientists and engineers interested in preparation, properties and applications of all classes of materials. Areas of interest include chemical and physical methods of materials synthesis, mechanical and/or electronic properties, powder processing, nanoscale structures, polymeric materials, composites, and applications, including manufacturing.

Candidates with appropriate backgrounds will be considered for the:

- Norton Professorship, sponsored by Norton Company;
- PNL Professorship, sponsored by Battelle/Pacific Northwest Labs.

Non-tenure-track research positions are also available in areas of computer simulation applications in materials science, spectroscopy and electron microscopy, and electronic materials growth and processing.

Candidates for these positions must hold PhD degrees; additional research and/or industrial experience is desirable. Responsibilities for tenure-track positions include teaching at the undergraduate and graduate student levels and graduate student supervision; responsibilities for both positions include the development of independently funded research programs in areas of current interest.

Applications for these positions will be received until the positions are filled. Send inquiries and applications, including a listing of publications and names of 3 references to:

Thomas G. Stoebe, Chairman
Department of Materials Science
and Engineering
University of Washington FB-10
Seattle, WA 98195
(206) 543-2600

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**DEPARTMENT OF THE ARMY OVERSEAS JOB VACANCY
MATERIALS ENGINEER**

Applications are being accepted for the position of Materials Engineer at the U.S. Army Research, Development and Standardization Group (United Kingdom) in London, England. This is a Civil Service position at the GS-15 grade level with a salary range of \$59,216-\$76,982 per annum. (A 4.1% increase is proposed for January 1991.)

The incumbent plans, directs and coordinates the materials science research and development programs of the Department of the Army in Europe and the Middle East. The research program is accomplished through contracts with educational institutions, research institutes and government and industrial laboratories. The incumbent encourages proposals for research in various fields of materials science including degradation and reactivity; effects of structure, defects and composition on materials properties; new methods of synthesis and processing; and new concepts in materials characterization. Makes decisions concerning the relative value of proposed and ongoing research projects. Establishes and maintains contact with the entire professional and scientific community of Europe identified with materials science research.

In addition to the basic requirement of a bachelor's or higher degree in engineering, applicants must have one year of specialized experience in materials engineering equivalent to the next lower grade in the Federal Service and a background in fundamental research. Applicants should possess (1) Ability to plan, direct and guide a research program in materials science; (2) Ability to evaluate research proposals for technical merit; (3) Advanced knowledge of materials science/engineering and evidence that technical competence has been maintained; and (4) Ability to interact effectively with other scientists, professional groups and management officials.

Applicants should submit a Standard Form 171, Application for Federal Employment (available at Federal Job Information Centers and Federal Personnel Offices) and a supplemental statement which addresses each qualification listed above to: U.S. Army Research Office, ATTN: SLCIS-CP-AR, P.O. Box 12211, Research Triangle Park, NC 27709-2211. For further information, call (919) 549-4212/4294. Applications must be received by January 31, 1991.

AN EQUAL OPPORTUNITY EMPLOYER U.S. CITIZENSHIP REQUIRED

Advertising Contact

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

Positions Available

**SURFACE/INTERFACE
EXPERIMENTALIST
Junior Faculty Position**

The Department of Physics at Montana State University invites applications for a tenure-track faculty position at the rank of assistant or associate professor in the area of surface or interface science, starting autumn of 1991. Opportunities exist to use excellent surface science instrumentation including MBE, HREELS, LEED and synchrotron photoemission facilities. PhD in one of the disciplines of surface/interface science and significant research experience in the experimental study of surfaces or interfaces required. Candidate must demonstrate interest and potential in introductory and graduate-level physics teaching. Send vita including publication list, descriptions of research and teaching interests, and the names, addresses and phone numbers of three references to: Faculty Search Committee, Department of Physics, MSU, Bozeman, MT 59717. Screening of applicants will begin February 1, 1991, and continue until position is filled. Address inquiries to J.C. Hermanson or Gerald J. Lapeyre at above address, phone (406) 994-3614. Preference to veterans.

AA/EO employer.

GRADUATE ASSISTANTSHIPS

Applications are now being accepted for graduate teaching and research assistantships in chemical engineering. Research areas include materials, waste management, electronic materials and thin films, ceramic powders and coatings, heterogeneous catalysis and surface science, structure and properties of interfaces in ceramics and semiconductors, safety and environmental aspects of process plant design, formation and processing of conventional and superconducting powders, laser-processing, application of expert system software to process economics, colloid processes, geotechnology, characterization of porous materials, transport phenomena, radioactive and mixed waste management, biomedical instrumentation, and alternative energy. Stipends of \$10,000-\$14,000 plus tuition waivers are provided to qualified individuals. Applicants must have a bachelor's or a master's degree in chemical engineering or nuclear engineering, materials science, chemistry or related fields. For additional information and application forms, contact: Prof. Eric Nuttall, Graduate Adviser, Department of Chemical and Nuclear Engineering, Farris Engineering Center Room 209, University of New Mexico, Albuquerque, NM 87131-1341; Telephone (505) 277-6112.

FACULTY POSITION

**Department of Chemical Engineering
Worcester Polytechnic Institute**

The Chemical Engineering Department at Worcester Polytechnic Institute has a full-time tenure track position open at the rank of Assistant Professor. Applicants must have an earned PhD in chemical engineering (or some closely related field), be prepared to teach graduate and undergraduate chemical engineering courses and to develop an active research program. The specific research area of interest to the department is advanced materials which in some way complements the current strengths in the department of zeolite synthesis, catalysis, composite materials, and membrane technology. Interested individuals should submit a resume listing professional experience, publications, summary of research and teaching interests and at least three references to:

Professor R.W. Thompson
Department of Chemical Engineering
Worcester Polytechnic Institute
Worcester, MA 01609

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**FACULTY POSITION
University of Michigan**

The Department of Materials Science and Engineering at the University of Michigan has an opening for a tenure-track faculty position at the level of assistant, associate or full professor. Applicants must have a PhD degree, be qualified to teach undergraduate and graduate courses in materials science and engineering, and should wish to develop independent and cooperative research programs. A demonstrated research potential or record is required. Preferred areas of expertise include materials theory and modeling, electronic and/or photonic materials, advanced characterization methods and materials synthesis and processing. Women and minority candidates are encouraged to apply.

Send resume and a list of references to:

Prof. Ronald Gibala, Chairman
Department of Materials Science
and Engineering
The University of Michigan
2300 Hayward Street
Ann Arbor, MI 48109-2136

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STAFF SCIENTIST

Solar Energy Research Institute in Golden, Colorado seeks Staff Scientist to perform fabrication, characterization, and diagnosis of high-efficiency ITO/InP solar cells for space applications. Employ film fabrication techniques such as magnetron sputtering and thermal evaporation, plus device processing, including photolithography and electro-plating, using instruments such as high vacuum thin film deposition system, ultraviolet mask aligner and thin film ellipsometer. Requires completion, or near completion, of PhD in applied physics or electrical engineering and one year experience in all phases of fabrication and characterization of high-efficiency InP-based solar cells. Experience may be gained through education or employment. \$40,000/year; 8:00-5:00, M-F. Respond by resume to: Colorado Department of Labor & Employment, Division of Employment & Training, 600 Grant St., Suite 900, Denver, CO 80203, Attn: Phil Minjarez, and refer to Job Order No. C03195310.

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