

**Positions Available**

**POSITIONS IN METALLURGY  
AND MATERIALS SCIENCE**

**Universal Energy Systems, Inc.**

Universal Energy Systems, a rapidly growing high tech R&D company in Dayton, Ohio, is seeking a Project Leader/ Manager, Senior Scientists, Research Scientists, and Technicians for its Materials Research Division.

Candidates for professional positions must have advanced degrees in metallurgy or materials science with experience or working knowledge in: monolithic titanium aluminides, titanium aluminides-matrix composites, high temperature intermetallics, rapid solidification, processing of metal matrix composites, advanced methods of powder consolidation, micromechanics, magnesium and aluminum alloys. Research background in mechanical property evaluation, deformation mechanisms, or electron-optical techniques will be a plus. The potential Project Leader/ Manager must have demonstrated management abilities and leadership qualities with good oral and written communication skills.

Opportunities for Technicians with relevant experience are in differential thermal analysis, x-ray diffraction, HIP-ing, thermomechanical treatments, metallography, mechanical testing, and vacuum systems.

Salary commensurate with qualifications and experience. UES offers excellent compensations and a comprehensive benefits package. No-smoking environment. U.S. citizen/permanent residents should send resumes to:



Ms. Judy McKinley, Personnel Dept.  
Universal Energy Systems, Inc.  
4401 Dayton-Xenia Road  
Dayton, OH 45432

**MATERIALS DEPARTMENT  
University of California,  
Santa Barbara**

The Department of Materials invites applications for a postdoctoral research position for experimental research in the field of crystal grown kinetics by molecular beam epitaxy of III-V compound semiconductors. PhD degree with a strong background in experimental studies of surfaces and a good knowledge of electron or x-ray diffraction theory is desirable. The research will eventually lead to the growth of quantum wire structures and investigation of their optical properties.

The position is a one year appointment with possibility of limited reappointment on a yearly basis in accordance with applicable personnel policies and availability of funding. Flexible start date period of August 1 - October 15, 1988.

**Application Procedure**

Please refer to position #EMP-12 and submit professional resume and three references to:

Prof. Pierre M. Petroff  
Department of Materials  
University of California  
Santa Barbara, CA 93106

Applications must be received by August 15, 1988. Proof of U.S. citizenship or eligibility for U.S. employment will be required prior to employment (Immigration Reform and Control Act of 1986).

*An Equal Opportunity/Affirmative Action Employer*

**JPL/NASA  
VISITING SENIOR SCIENTIST**

**Microgravity Science and  
Applications Materials Science**

The Jet Propulsion Laboratory is seeking a senior scientist to lead and coordinate the NASA Microgravity Sciences and Applications Materials Science Program. The position would allow the appointee to bring scientific expertise to bear on the planning, execution and coordination of broad-based programs in materials science and alloys. Responsibilities include the coordination of ongoing programs, evaluation of proposals for new efforts, and the participation in the overall programmatic planning. Frequent travel and residence in the Washington, DC area will be required. PhD or equivalent experience and training in materials science is required. Tenured faculty members are the preferred choice although qualified individuals from nonprofit research institutions may also be considered. This position is open for immediate filling. Normal assignment in the Visiting Senior Scientist Program does not exceed two years. Appointees must be U.S. citizens or permanent residents and are expected to return to their home institutions following the NASA assignment. Please provide curriculum vitae, bibliography, and names of four references to:

Dr. Harry Ashkenas 180-900  
Dept. U65  
Jet Propulsion Laboratory  
4800 Oak Grove Drive  
Pasadena, CA 91109  
(818) 354-8251

Equal Opportunity Employer

**RESEARCH FACULTY AND  
POSTDOCTORAL POSITIONS**

**Vanderbilt University**

The Materials Research and Applications Center at Vanderbilt University invites applications for Research Faculty/Postdoctoral positions starting approximately September 1988. The successful candidates will be expected to take strong roles in developing several NASA-approved materials science, fluid dynamics, and nonlinear acoustic experiments. Some of these experiments are expected to be flown on NASA Space Shuttle Missions. Desirable candidates are those with PhDs in any of the following: Condensed-Matter, Physical Acoustics, Materials Science, Fluid Mechanics, or Mechanical Engineering. This is a new center with opportunities for self-motivated individuals to perform pioneering work. Salary and ranking will be commensurate with qualifications and experience. Please send resume and three letters of recommendation to:

Prof. Taylor Wang  
Dept. of Mechanical &  
Materials Engineering  
Vanderbilt University  
Olin Hall, Room 101  
Nashville, TN 37235

**Positions Available**

**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 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 October 1, 1988 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.*

**FACULTY POSITION**

**Materials Processing**

The University of Illinois at Chicago is seeking applications, preferably at the assistant professor level, for a tenure track faculty position in the field of materials processing.

Applicants are expected to teach undergraduate and graduate courses and to develop an independent research program. In this regard, the applicant should seek external support for this research area and direct graduate students in preparation for MS and PhD degrees.

Send a resume with the names of three references to:

Prof. Steven Danyluk, Chairman,  
Search Committee  
Department of Civil Engineering  
Mechanics and Metallurgy (mc 246)  
University of Illinois at Chicago  
P.O. Box 4348  
Chicago, IL 60680  
Phone: (312) 996-2437

Applications will be accepted until August 1, 1988.

*The University of Illinois is an affirmative action/ equal opportunity employer.*

**CERAMICS & MATERIALS  
TECHNOLOGY SCIENTIST**

The Los Alamos National Laboratory is searching for a versatile professional to study the structural and thermal properties of irradiated ceramics, polymers and metals.

**Scope of Work**

Responsible for studies of materials in support of fusion energy, space reactor and DOE/OBES radiation effects programs. Will conduct neutron and other radiation tests, measure relevant properties of both unirradiated and irradiated materials and publish results. Some programmatic liaison with funding agencies and projects at other Laboratories.

**Requirements**

PhD in Materials Sciences or related field, with experience in microstructural interpretation of ceramics and metals. Background in mechanical and irradiation testing preferred. Good communication skills with publications and presentation record.

The Los Alamos National Laboratory is located in the mountains of northern New Mexico at an elevation of 7400 feet. The living is uncrowded, casual and pollution free. The sunny climate is superb...cool summers and mild winters. Los Alamos has an excellent school system and ample recreation opportunities. Fringe benefits provide for 24 days annual vacation; 18 days annual sick leave; 12 paid holidays; medical, dental and retirement programs. Interview and relocation expenses paid.

Send resume to: James Trout (MS P280), Personnel Services Division 80247-MISC, Los Alamos National Laboratory, Los Alamos, NM 87545.

Affirmative Action/Equal Opportunity Employer  
U.S. Citizenship Required

University of California

**Los Alamos**

**TECHNICAL  
EDITOR**

**Materials Research Society**

The Materials Research Society, headquartered in Pittsburgh, seeks a creative and assertive leader to serve as editor of a rapidly growing monthly magazine serving materials research professionals. Responsibilities include establishing issue themes, acquiring and evaluating technical overview articles, writing and directing the rewriting of articles, and soliciting and evaluating news from government, industry, and education. Masters degree in a technical field relevant to materials science and engineering required and knowledge of current developments in one or more major materials research areas desirable. Well-organized individual sought with strong writing and editing skills and prior experience in writing and editing for publications serving the technical community. Salary and benefits commensurate with experience. Send resume, samples of writing, names of two references, and relevant salary history to Chairman of Technical Editor Search Committee, Materials Research Society, 9800 McKnight Road, Suite 327, Pittsburgh, PA 15237.

**Positions Available**

**POSTDOCTORAL RESEARCH  
POSITIONS IN  
SUPERCONDUCTIVITY**

**Texas Center for  
Superconductivity at the  
University of Houston**

The Texas Center for Superconductivity at The University of Houston (TCSUH) invites applications for a number of research positions in various aspects of superconductivity research. Positions are available for Physicists, Chemists, and Chemical, Electrical, and Mechanical Engineers. Broad problem areas in which research is in progress include study of the physics and chemistry of high temperature superconducting (HTSC) and related materials. Search for new material, development of existing material for applications, bulk and film materials synthesis and characterization, devices design and development, etc. TCSUH was established by an Act of the Texas State Legislature in June 1987. It is a multidisciplinary research consortium dedicated to basic and applied research technology development and transfer, and advanced education in the field of HTSC. The consortium will consist of other universities, industry, and government laboratories. TCSUH currently is funded by federal, state, University of Houston, and private sources at an annual budget of over \$10 million. Applications should be sent to Prof. Paul Chu, Director, TCSUH, University of Houston, Houston TX 77204-5506. Deadline is open until positions are filled. Inquiries can be made to Dr. Pei Hor (713) 749-2841, Dr. Dan Luss (713) 749-3617, or Dr. Roy Weinstein (713) 749-4385.

*TCSUH is an Affirmative Action/  
Equal Opportunity Employer*



**FACULTY POSITION**

**Advanced Ceramic Materials**

The University of Toronto is seeking applications for a tenure stream position at the level of assistant professor.

The applicant should have a PhD and teaching/research experience in the structure, properties and processing of advanced ceramics, preferably with specialization in industrial ceramics or optoelectronic materials. This position is a cross appointment between the Departments of Chemical Engineering and Applied Chemistry and Metallurgy and Materials Science.

The appointee would be expected to teach and to maintain an active research program. Please submit a resume, a statement on research and teaching interests, and the names and addresses of 3 references to Prof. W.A. Miller, Chairman, Department of Metallurgy and Materials Science, University of Toronto, Toronto, Ontario, M5S 1A4, Canada. The application deadline is November 1, 1988 or until a suitable candidate is chosen. The appointment date is on or after January 1, 1989.

*This is an international search; applications are encouraged from qualified persons without regard to citizenship. The University encourages both women and men to apply.*

**Editorial Contact**

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**FACULTY POSITIONS  
Michigan Technological  
University**

Michigan Technological University is adding two new faculty members in tenure track positions. The doctoral degree is required; salary and rank are dependent upon qualifications and experience.

We are seeking persons who will develop strong programs of teaching and research, one in each of the following areas: Materials and/or Materials Processing (may include ceramics, metals, or electronic materials); Chemical Metallurgy/Minerals Processing.

Applicants are encouraged to respond as soon as possible but applications will be received until the positions are filled.

Qualified applicants should reply to:  
Prof. L. A. Heldt, Head  
Department of Metallurgical  
Engineering  
Michigan Technological  
University  
Houghton, MI 49931, USA

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