

Positions Available

**EMPLOYMENT OPPORTUNITY
Waste Glass Processing
Pacific Northwest National Laboratory**

The Pacific Northwest National Laboratory (PNNL), located in Richland, Washington, and operated by Battelle for the U.S. Department of Energy has an immediate need for an experienced leader in the field of Waste Glass Processing within our Thermal Processing Group.

The Thermal Processing Group at PNNL is a leading and nationally recognized center of expertise in waste vitrification. We seek an individual to provide leadership in the development of new business and commercialization of new technologies within the melter processing area. The successful applicant for this position will have experience in teaming with national laboratories, industry, and universities and a proven track record of accomplishment with government funding agencies and the private sector. The incumbent will also have a strong record of technical accomplishments in melter development and glass processing issues.

Candidates must have strong oral and written communication skills and strong client relationship and business development skills. The position requires a degree in chemical, mechanical, or ceramic engineering or related discipline. The focus of the incumbent's technical work should be on vitrification engineering and processing, complemented with a proficiency in fundamental glass and materials science. A PhD degree with a minimum of five, and preferably 10, years is preferred. An MS degree with 10 years experience or BS degree with 15 years is also acceptable.

For consideration, please respond via our external website at <http://www.pnl.gov/hrpublic/>, and apply to 39619, or send e-mail to traci.rugg@pnl.gov referencing same position number.

PNNL is an Affirmative Action/Equal Opportunity Employer and supports diversity in the workplace. Candidates will receive consideration for employment without regard to race, color, religion, sex or national origin.

**IMAGING AND ANALYSIS SPECIALIST
Princeton Materials Institute
Princeton University**

The Imaging and Analysis Center at Princeton Materials Institute, Princeton University has an open position for a Specialist. The successful candidate will instruct students in the operation of instruments for imaging (electron, optical, and scanning probe microscopies), analysis, and diffraction; maintain and repair these instruments; oversee upkeep of the center; support faculty and students; analyze samples; supervise students; maintain a safe environment; and other assigned duties. Bachelor degree in physical science and/or 4+ years related work experience required. Candidates should be familiar with the instruments in the facility, mechanical and electronic equipment, vacuum systems, PC and/or SUN and EDS/WDS systems. The candidate should be competent with sample preparation techniques, including ion milling, ultra-thin sectioning, staining, and coating of samples. Good communication and interpersonal skills are essential.

Interested candidates should send application to Susan Calvetto, Business Manager, Princeton Materials Institute, Princeton University, 70 Prospect Avenue, Princeton, NJ 08540; calvetto@princeton.edu. Applications should include a resume, letter of application, and three letters of recommendation. Princeton University offers excellent benefits and vacation package.

AA/EOE

**RESEARCH ASSISTANT PROFESSOR
Department of Materials Science and Engineering
University of Virginia**

The Department of Materials Science and Engineering of the University of Virginia invites applications for the position of Research Assistant Professor. Candidates are sought with expertise in the area of atomistic modeling and simulation of vapor phase deposition of surfaces and interfaces. Special attention will be given to persons with expertise in advanced molecular dynamics and Monte Carlo techniques applied to the deposition of giant magnetoresistive multilayer structures, thermal barrier coatings, metallization, and other atomic scale structures critical to the performance of devices and structures.

The primary responsibilities of the individual in this position will be to participate in the development and execution of major funded research programs that will be sufficient to provide full financial support for themselves and graduate assistants, and to assist in guiding the research of graduate assistants. Service to the University and profession is also expected. An earned doctorate in materials science and engineering or a related area and a demonstrated ability to publish in refereed technical journals, as well as to make oral presentations of research is required.

Interested individuals should send a complete resume with the names and addresses of at least three references (include e-mail address) by **July 31, 1999** to Contact Person: Dr. Phillip A. Parrish, Co-Director, Intelligent Processing of Materials Laboratory, Materials Science and Engineering, University of Virginia, Thornton Hall B-213, Charlottesville, VA 22903-2442. Additional information on the department can be found at <http://www.mse.virginia.edu>. To learn more about the UVA/Charlottesville/Albemarle County area see <http://www.virginia.edu/wlcm.html>.

The University of Virginia is an Equal Opportunity/Affirmative Action Employer. Applicants must be able to lawfully accept employment in the United States.

**POSTDOCTORAL RESEARCH POSITION
Department of Mechanical Engineering
and Materials Science
Rice University**

Rice University, Department of Mechanical Engineering and Materials Science, located in Houston, Texas is seeking candidates for a postdoctoral research position.

Applicants should have a background in analytical and experimental hypervelocity impact studies for space applications and low earth-orbit applications. The program involves a strong relationship with NASA Johnson Space Center and the Rice University Hypervelocity Impact Test Facility (RUHITF). Applicants with a strong desire to couple experimentation to analytical and computational modeling are sought. Interest also lies in investigating materials properties and behavior in connection with the hypervelocity impact studies. Applicants must make a one-year commitment. There is a strong possibility that funding will be available for a subsequent year.

Interested individuals should send a curriculum vitae and cover letter, together with the names, addresses, and phone numbers of at least three references to either of the following:

Prof. Y.C. Angel or Prof. E.V. Barrera
Department of Mechanical Engineering & Materials Science
MS 321
Rice University
P.O. Box 1892
Houston, TX 77251-1892

Applicants must have proof of legal authorization to work in the United States. Deadline for receipt of applications is September 1, 1999.

Rice University is an Affirmative Action/Equal Opportunity Employer.

Positions Available

FACULTY POSITIONS

**Department of Materials Science and Engineering
The Ohio State University**

The Department of Materials Science and Engineering at The Ohio State University invites applications for three new faculty positions in computational materials science. The first of these positions will be at the senior level, with the remaining positions being at either the junior or senior level. The successful applicants will form the core of a new thrust in computational materials science. These positions will be filled over the next three years as outstanding candidates are identified. Candidates in all areas of computational materials science will be considered, including fundamental quantities (first-principles calculations, atomistics, phase stability), microstructure development, microstructure-property relationships, and processing-microstructure relationships. Applicants should hold a PhD degree in an appropriate discipline, have a distinguished record of research accomplishments, and a commitment to excellence in undergraduate and graduate teaching.

The Department of Materials Science and Engineering is part of the College of Engineering and offers undergraduate programs in Ceramic Engineering, Materials Science and Engineering, and Metallurgical Engineering and MS and PhD degrees in Materials Science and Engineering. The Department serves about 150 undergraduate majors and about 100 graduate students with 22 full-time faculty. The department has a research budget exceeding \$5M annually, and includes research foci in microstructure characterization, structural materials, corrosion, and electroceramics.

Interviewing will commence as soon as appropriate candidates are identified. Confidential applications may be addressed to:

Glenn S. Daehn
Mars G. Fontana Professor of Metallurgical
Engineering
Department of Materials Science and
Engineering
The Ohio State University
2041 College Road
Columbus, OH 43210



The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Qualified women, minorities, Vietnam-era veterans, disabled veterans and individuals with disabilities are encouraged to apply.

**POSTDOCTORAL RESEARCH ASSOCIATE
Physics Department
Brookhaven National Laboratory**

The Physics Department at Brookhaven National Laboratory has a Postdoctoral Research Associate position available in the Neutron Scattering Group.

A PhD degree in physics or related field is required; experience with neutron or x-ray scattering techniques highly desirable. You will be expected to develop an independent research program involving the utilization of the unique capabilities of neutron scattering to study forefront problems in condensed-matter physics, such as high temperature superconductivity, correlated-electron phenomena and low-dimensional magnetism. Experiments are currently performed using reactor facilities at NIST, ORNL, and elsewhere. In addition, beamlines at the National Synchrotron Light Source are available for x-ray scattering studies. Under the direction of J. Tranquada.

CVs should be forwarded, indicating position #MK2208, to M. Kipperman, Brookhaven National Laboratory, Bldg. 185, P.O. Box 5000, Upton, NY 11973-5000. For more information about BNL, visit our website at www.bnl.gov.

BNL is an equal opportunity employer committed to workforce diversity.

DIRECTOR

**Particulate Materials Center
The Pennsylvania State University**

The Intercollege Research Program of The Pennsylvania State University invites applications for Director of the Particulate Materials Center (PMC). The PMC is an NSF Industry/University Cooperative Research Center dedicated to the research of particulate systems (<http://www.mrl.psu.edu/pmcenter/>). The Director will hold a joint faculty position between the Materials Research Laboratory and one of the academic departments.

The Director is responsible for interfacing with industry, including recruitment and retention of industry members, and related Center administrative functions. A demonstrated track record of industrial collaborations is expected. In addition, excellent communications and organizational skills are necessary. The successful candidate should have an established record of research accomplishments in the field of particulate materials. Areas of particular interest include particle synthesis and self-assembly, pharmaceutical applications of particles, and computer simulation of particulate systems. The Director is also expected to teach both undergraduate and graduate courses. A PhD degree in ceramics, chemical engineering, chemistry, materials science and engineering, or related fields is a requirement.

The Search Committee will review the applications starting on **September 1, 1999** and continue until the position is filled. Please submit curriculum vita and references to:

Professor Virendra M. Puri
Search Committee Chair
249 Materials Research Laboratory
Pennsylvania State University
University Park, PA 16802
Tel: 814-863-6156; Fax: 814-863-9704

Penn State is committed to affirmative action, equal opportunity, and the diversity of its workforce.

**FACULTY POSITION
University of California, Davis**

The Department of Chemical Engineering and Materials Science and the Department of Chemistry at the University of California, Davis seek a senior faculty member for a joint appointment in the area of Fuel Cell Science and Engineering to lead and expand fuel cell vehicle research and education at UC Davis. This campus initiative in fuel cell vehicle research builds upon strong existing research programs (funded by 16 companies) and strengths in engineering, chemistry, and environmental and transportation research. The US Department of Energy recently designated UC Davis as a Center of Excellence in Fuel Cell Vehicles.

The senior faculty member is expected to provide intellectual leadership, help build a greatly expanded funding base, mentor young faculty, and enhance campus visibility in the fuel cell area. The person we seek must have an established reputation as a researcher, teacher, and leader in fuel cell science and engineering or very closely related field such as materials science, chemical engineering, or electrochemistry.

Qualified applicants should submit a resume, statement of teaching and research interests, and names of three references to Professor Subhash H. Risbud, Chair, Department of Chemical Engineering and Materials Science, University of California, One Shields Avenue, Davis, CA 95616-5294. All applications received by **August 1, 1999** will be fully considered. Subsequent applications of an exceptional nature will be accepted until the position is filled.

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