

**Positions Available**

**POSTDOCTORAL FELLOW POSITIONS**

An Advanced Technology Program research grant has been awarded to Armstrong World Industries, Inc. for the development of new thermal insulation material. Three industrial post-doctoral fellow positions based at the company's Innovation Center Campus in Lancaster, PA are being created for this project. One position is for a theorist and two are for experimentalists. Resumes are invited from candidates with a PhD degree in chemistry, material science, solid state physics, or chemical engineering and specializing in one of these areas: polymer chemistry, colloid science and surface modifications, morphology characterization and control, nanostructure and structure-property relationship, or thermal conductivity and viscoelasticity.

**Theorist**

Research duties include helping develop theoretical knowledge base for general structure-property relationship, morphology control at the nanometer level, interfacial tension and modification, viscoelasticity and thermal conductivity. Experience in computer simulation is a plus.

**Experimentalist (Two)**

1. Research duties include the preparation of polymer-based foams using techniques that give enhanced morphology control. An understanding of polymerization chemistry as well as colloid science is a prerequisite. The ability to operate particle size and electrokinetic measurement instrumentation is an advantage.

2. Research responsibilities include the preparation of low-density foams with a prescribed morphology. Candidates must have a strong background and research experience in the following areas of materials science: sol-gel ceramics and polymers. Experience in microstructure characterization is desirable.

Good communication skills and the ability to work in a multidisciplinary team are essential. Salary commensurate with experience. Candidates should mail or fax a vita and a brief summary of research experience to:

Bing G. Spittler  
 Manager, Professional Employment  
 Armstrong World Industries, Inc.  
 P.O. Box 3001  
 Lancaster, PA 17604  
 (Fax) 717/396-2126

**TENURE-TRACK FACULTY POSITION  
 University of Notre Dame**

The Department of Electrical Engineering invites applications in the area of electronic materials. Special attention will be given to individuals specializing in materials growth or processing. Applicants should have a PhD in electrical engineering, materials science and engineering, or a related field. The Department offers BS, MS, and PhD programs in electrical engineering and MS and PhD programs in materials science and engineering. Active research areas include semiconductor materials and devices, materials characterization, device simulation, and high-temperature superconductors. Applicants should have interest in teaching at the undergraduate and graduate levels, advising students, and conducting research. Rank and salary are negotiable. Interested persons should submit a complete resume and names of three references to:

Dr. Daniel J. Costello, Chair  
 Department of Electrical Engineering  
 University of Notre Dame  
 Notre Dame, IN 46556

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

**FACULTY POSITION IN  
 MATERIALS SCIENCE AND ENGINEERING  
 University of Pittsburgh**

The Department of Materials Science and Engineering, University of Pittsburgh invites applications for a tenure track faculty position at the assistant professor level. A more senior position will also be considered for exceptionally qualified candidates. Applicants should possess a recent PhD in materials science, metallurgical engineering, or materials science and engineering. The successful candidate will be expected to teach at both the undergraduate and graduate levels, and to conduct recognized and externally funded research. The most preferred teaching and research area is the mechanical behavior of metals, alloys and other engineering materials with emphasis on processing-microstructure-mechanical property relations. The successful candidate is expected to have a working knowledge of materials characterization including advanced metallographic techniques, mechanical testing, computer modeling and quantitative metallography. The expected starting date is January 1, 1993, and applications will be considered until the position is filled.

Applicants should send their resume with the names, addresses, and phone/fax numbers of three references to: Prof. A.J. DeArdo, Chairman of the Search Committee, Department of Materials Science and Engineering, 848 Benedum Hall, University of Pittsburgh, Pittsburgh, PA 15261.

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**DEAN  
 SCHOOL OF MINES AND METALLURGY  
 University of Missouri-Rolla**

The School of Mines and Metallurgy at the University of Missouri-Rolla is a 122-year-old, internationally renowned institution, conducting research and instruction in the fields of ceramic, geological, metallurgical, mining, nuclear, and petroleum engineering, as well as in geology and geophysics, and in the Graduate Center for Materials Research, the Rock Mechanics and Explosives Research Center, and the Generic Mineral Technology Center for Pyrometallurgy.

The current Dean, Don L. Warner, has announced his retirement. The Dean of the School of Mines and Metallurgy reports to the Chancellor and is responsible for the administration of the School through its departments and centers. Academic training, professional experience and achievements, and demonstrated success in administration will be considered in the selection process.

Applications and nominations for the position should be submitted to:

C. Dale Elifrits, Chairman  
 Search Committee for the Dean of the  
 School of Mines and Metallurgy  
 Room 206 Parker Hall  
 University of Missouri-Rolla  
 Rolla, MO 65401

It is requested that dossiers be submitted to be received before **October 5, 1992**, when the selection process will begin.

*The University of Missouri-Rolla is an Equal Opportunity Institution.*

**Positions Available**

**FACULTY POSITIONS  
NYS College of Ceramics**

The School of Ceramic Engineering and Sciences announces tenure-track faculty positions available immediately. Applicants should have a strong interest and experience in the processing and characterization of advanced composites, structural ceramics or electronic ceramics. Other possible areas include manufacturing, NDT and electronic packaging. A genuine commitment to both teaching undergraduate and graduate students and in developing contracts for supported research program activities is requisite. Appointments at all professorial levels will be considered depending on qualifications and experience.

The School offers programs in Ceramic Engineering, Ceramic Science and Glass Science with an enrollment of about 375 undergraduate and 75 graduate students. Affiliated with the School are the NYS Center for Advanced Ceramic Technology and the NSF-Industry Center for Glass Research. Interested persons should send a complete resume and the names of at least three references to:

A.N. Cormack, Dean  
School of Ceramic Engineering  
and Sciences  
NYS College of Ceramics at Alfred  
University  
Alfred, NY 14802  
Phone: 607-871-2448  
Fax: 607-871-2305

Applications will be considered until all positions are filled.

*Alfred University is an Affirmative Action/Equal Opportunity Employer*

**POSTDOCTORAL POSITION  
University of California, Irvine**

Position for an assistant specialist involving research on interfaces in ceramic materials. Experience in one or more of the following is required: electrical and optical characterization of ferroelectric thin films, x-ray diffraction, analytical and high resolution transmission electron microscopy of ceramic materials. Applicants must possess a PhD in materials science engineering. Send curriculum vitae and names and telephone numbers of three references to: Prof. Me cartney, Materials Program, Department of Mechanical and Aerospace Engineering, University of California, Irvine, Irvine, CA 92717.

*The University of California is an Equal Opportunity/Affirmative Action Employer.  
The School of Engineering welcomes applications from women and minority candidates.*

**POSTDOCTORAL POSITION  
Oak Ridge National Laboratory**

Position in the Metals and Ceramics Division involves calculations on the densification and microstructure of brittle materials, and involves the numerical modeling of mass transport by grain boundary and surface diffusion in order to study the evolution of sintering microstructure.

For position information: J.H. Schneibel, Oak Ridge National Laboratory, P.O. Box 2008, Oak Ridge, TN 37831-6117. For application material: Postgraduate Research Program, Science/Engineering Education Division, Oak Ridge Institute for Science and Education, P.O. Box 117, Oak Ridge, TN 37831-0117, (615) 576-3456.

**POSTDOCTORAL FELLOWS**

Rutgers University, Department of Ceramics invites applications for three postdoctoral fellowship positions in the area of ceramic matrix composites, two in the area of mechanical properties testing, and one in microstructure evaluation. The candidates must have completed a PhD. The successful mechanical properties candidates must have a good knowledge of mechanical properties and should have had experience testing long fiber composites, preferably 3-D woven ceramic composites. The microscopist should have a good knowledge of TEM, surface analytical equipment and preferably studies of fiber/matrix interfaces. The positions are intended for one to two years and depend on the successful acquisition of funding. Interested candidates should send their resumes along with copies of three letters of recommendation and relevant reprints by **September 1** to the attention of: Dr. S.C. Danforth or Dr. W.R. Cannon, Dept. of Ceramics, Rutgers University, P.O. Box 909, Piscataway, NJ 08855-0909. The intended starting date is October 1, 1992.

*Rutgers University is an Equal Opportunity Employer.*

**POSTDOCTORAL POSITION  
Oak Ridge National Laboratory**

Position is in high-temperature solid-state chemistry and thermodynamics in Chemistry Division to conduct research on synthesis of new oxide superconductors and optimization of critical current density and other properties as a function of composition, cation doping, and synthetic methodology. Individual should have background in synthesis and optoelectronic properties of novel materials.

For position information: J. Brynestad, Oak Ridge National Laboratory (615) 574-4952. For application material: Postgraduate Research Program, Science/Engineering Education Division, Oak Ridge Institute for Science and Education, P.O. Box 117, Oak Ridge, TN 37831-0117, (615) 576-3456.

**RESEARCH POSITIONS  
University of Missouri-Rolla**

Applications are sought for openings that are anticipated in the next six months for postdoctoral fellows, research assistant professors, and research engineers/aides. Applicants should possess a PhD degree in materials science/engineering or related disciplines such as physics, chemistry, ceramic, civil, metallurgical, or chemical engineering. Preference will be given to persons with relevant materials research experience. Applications will be accepted from July 1 through December 31, 1992. Applicants should send their current resume and a list of at least three references to:

Director  
Graduate Center for Materials  
Research  
University of Missouri-Rolla  
Rolla, Missouri 65401 (USA)

*UMR is an Equal Opportunity/Affirmative Action Employer*

**Ad Closing for  
the October  
MRS Bulletin is  
September 1, 1992.**

**To place your ad, contact:  
Mary E. Kaufold  
Materials Research Society  
9800 McKnight Road  
Pittsburgh, PA 15237  
Phone (412) 367-3036  
Fax (412) 367-4373**

**Positions Available**

**RESEARCH GROUP LEADER**

Will develop and supervise the research and service activities of a highly complex (inorganic chemistry) scientific laboratory. Doctorate degree in a highly relevant area of science or an equivalent combination of education and experience required. Four to five years of research and supervisory experience also required. Facility currently located on the University of Missouri's Columbia campus. Must be willing to relocate when the facility is permanently moved to the Rolla campus. Salary commensurate with qualifications. Excellent fringe benefits. Application deadline: **September 8, 1992**. For application forms, contact: Human Resource Services, 109 Altman Hall, University of Missouri-Rolla, Rolla, MO 65401 or call (314) 341-4241.

*UMR is an Affirmative Action/  
Equal Opportunity Employer.  
Women and minorities are encouraged to apply.*

**PROFESSOR OF CERAMIC  
POWDER TECHNOLOGY**

**Swiss Federal Institute  
of Technology Lausanne  
L'Ecole Polytechnique  
Fédérale de Lausanne (EPFL)**

L'Ecole Polytechnique Fédérale de Lausanne announces the opening of a tenured position responsible for the direction of the Ceramic Powder Technology Laboratory of the Department of Materials Science and Engineering. Women are particularly welcome.

Deadline for application: **31 August 1992**. The successful candidate will enter into service to mutual agreement.

For further information concerning the position, please write to:

Secrétariat général de l'Ecole  
Polytechnique Fédérale de Lausanne  
CE-Ecublens - 1015 LAUSANNE,  
SUISSE

**FACULTY POSITION**

Yale University, Department of Mechanical Engineering invites applications for a faculty position at the level of assistant or term associate professor. Candidates should have research interests and expertise in micromechanics of materials. Qualifications including PhD in a related field, commitment to undergraduate and graduate teaching, and potential for developing strong and externally sponsored research programs in the field. Applications are accepted until **October 30, 1992**. Please send a resume, a statement of teaching and research interests, copies of three principal publications (where appropriate), and names, addresses, and telephone numbers of three references to: Chair, Search Committee, Department of Mechanical Engineering, P.O. Box 1968, Yale University, New Haven, CT 06520-1968.

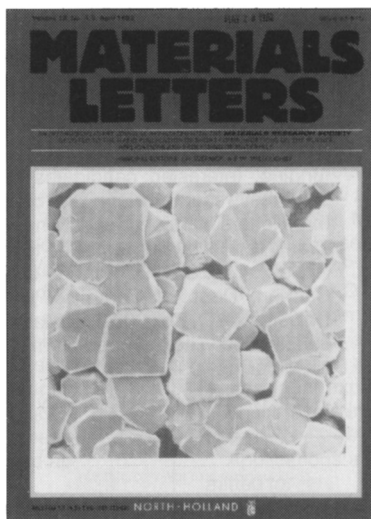
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