

Positions Available

CERAMICS/MATERIALS SCIENTIST

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 commensurate with experience. The post is available for the Fall 1988 semester. Currently, the Department is active in composite, superconductor and electronic materials research. Interested persons should submit a resume and three references, to Prof. George Fisher, Department Head, Department of Metallurgy & Materials Science, Polytechnic University, 333 Jay Street, Brooklyn, NY 11201.

Advertisers in this issue:

Brimrose	Outside back cover
Cahn Instruments	36
General Ionex	Inside front cover
High Voltage Engineering Europa	11
Huntington Laboratories	9
Innovative Technology	27
Janis Research	41
JEOL	14
Kurt J. Lesker	22
National Electrostatics	12
Nicolet	Inside back cover
Orton	4
Perkin-Elmer	28
Princeton Gamma-Tech	21
Siemens	Inside back cover
South Bay Technology	19
Springer-Verlag	53
Ultra High Vacuum Instruments	13

MATERIALS SCIENTIST

Solarex Corporation, a wholly-owned subsidiary of AMOCO Corporation, is the number one producer of photovoltaic modules and systems in the entire world. Right now, we're looking for a qualified Materials Scientist to lead a small research group at our R/D organization.

To qualify, you need an MS or PhD in the physical sciences with emphasis on education and at least three years experience in the following fields:

- Crystal growth from the melt
- Crystal defect characterization and interpretation in silicon or related materials
- Ceramics fabrication and characterization

Individuals who meet these basic qualifications and have demonstrated skills in project organization, management and completion are welcome to apply.

Solarex Corporation offers a competitive salary and a comprehensive benefits package including health, dental and life insurance and a 401-K plan. Plus, we're located beneath the rolling hills of historic Frederick, MD — only an hour away from the cultural and recreational activities of Washington, D.C. — and close to the mountains and the beach. Please submit resume, including salary history to:

Solarex Corporation
630 Solarex Court
Frederick, MD 21701
EOE, M/F/H/V.



INDUSTRIAL ASSOCIATES PROGRAM

Arizona State University

Started to promote and establish a strong interaction between industrial companies and the personnel at the National Facility for High Resolution Electron Microscopy. Benefits include assistance with use of specialized and state-of-the-art equipment in the Facility and data interpretation; information will also be provided on recent advances in electron microscopy techniques, programs and publications within the Facility.

For more information contact:

Dr. Patricia A. Labun
Center for Solid State Science
ASU, Tempe, AZ 85287-1704
(602) 965-2934

Advertising Contact

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

Positions Available

FACULTY OPENINGS

**Materials Engineering Department
Rensselaer Polytechnic Institute**

The Materials Engineering Department at Rensselaer Polytechnic Institute has tenure-track faculty openings at the assistant and associate professor levels. These positions require a PhD degree. Applicants should be dedicated to teaching and research. The department has programs in ceramics and glasses, electronic materials, metallurgy, and polymers, with special needs for faculty in welding and high temperature composite materials.

RPI is the oldest technical university in the United States. The Materials Engineering Department graduates approximately 30 seniors per year and has a full-time graduate enrollment of about 100 students. Opportunities exist for cooperative studies involving the Centers for Integrated Electronics, Manufacturing Productivity and Technology Transfer, Composite Materials, and Glass.

Interested applicants should send their curriculum vita to Prof. Robert Doremus, Chairman, Materials Engineering Department, Rensselaer Polytechnic Institute, Troy, NY 12180-3590.

RPI is an affirmative action/equal opportunity employer

MATERIALS ENGINEER

(Salary Range: \$27,716 - \$45,986)

The National Bureau of Standards is seeking a Materials Engineer to participate in research involving the compositional and microstructural characterization of cement, hydrated cement, mortar and concrete. Characterizing the composition and microstructure of inorganic building materials using scanning electron microscopy and other experimental techniques, including x-ray diffraction, thermoanalytical methods, optical microscopy and infrared spectroscopy. Applicants must demonstrate knowledge and understanding of the composition and microstructure of portland cement and hydrated portland cement. Knowledge of computer image analysis and computer modeling and familiarity with concepts and experimental techniques relating to fracture and fracture mechanics of hardened cement paste, mortar and concrete.

Applicants must have completed all requirements for a two-year MS degree in Materials Engineering or equivalent education and experience to qualify.

Interested candidates should call (301) 975-3007 for copy of Vacancy Announcement and/or submit an SF-171 application for Federal Employment to:

Department of Commerce
National Bureau of Standards
Personnel/Building 101, Room A-123
Gaithersburg, MD 20899
ATTN: Sherman Hatchett (87-3033-MRSB-SH)

*NBS is an Equal Employment/Affirmative Action Employer.
U.S. Citizenship Required.*

MATERIALS SCIENTISTS

Bandgap Technology Corporation, a Colorado based producer of advanced materials, has an opening for two scientists to assist in the analysis of epitaxially grown III-V semiconductor films.

The individual filling this position must have a BS or MS in Materials Science, or its equivalent. Experience in metallographic specimen preparation, darkroom procedures, TEM/STEM, SIMS, SEM, x-ray topography and double crystal diffraction is highly desirable.

Qualified individuals are invited to send resumes and salary history to:

Bandgap Technology Corporation, Personnel Department, 891 A Interlocken Parkway, Broomfield, CO 80020.

BANDGAP
Technology Corporation

MICROSCOPIST

Conduct research on structural and microstructural characterization using advanced Transmission Electron Microscopy techniques such as Analytical Electron Microscopy, Convergent Beam Electron Diffraction, Lorentz microscopy, High Resolution and Atomic Resolution Microscopy, image processing and simulation of high Tc superconductors and hard magnets, fine particle magnetic recording media and thin film recording media. Establish structure-property relationships and carry out subsequent alloy design experiments to improve relevant properties.

The applicant must have expertise in the fields listed above demonstrated by publications in national and international journals. Demonstrated expertise in all advanced methods of electron microscopy essential. Must have demonstrated research capabilities in applying electron microscopy to magnetic and superconducting materials as evidenced by refereed publications. Requires demonstrated ability to make clear and effective oral presentations of scientific and technical material. Expertise in magnetic characterization desirable. Prefer a PhD in Materials Science.

Interested applicants should submit two copies of resume to: Employment Office, Bldg. 90-1042, Job #A/4770, Lawrence Berkeley Laboratory, 1 Cyclotron Road, Berkeley, CA 94720.

An Equal Opportunity Employer, M/F/H

Editorial Contact

Gail A. Oare
MRS BULLETIN
Materials Research Society
9800 McKnight Road, Suite 327
Pittsburgh, PA 15237
(412) 367-3036 Fax: (412) 367-4373