

SUPPORT FOR NEW USERS AT SYNCHROTRON RADIATION AND NEUTRON BEAM RESEARCH FACILITIES

The NSLS/HFBR Faculty/Student Support Program is designed to encourage new users to BNL's National Synchrotron Light Source (NSLS) and High Flux Beam Reactor (HFBR). The program supports faculty/student research groups by covering expenses incurred during exploratory visits to BNL and while performing initial experiments at the NSLS and HFBR. Expenses covered include travel, housing, per diem, and some incidental costs.

Both the NSLS and the HFBR are large interdisciplinary research facilities. The NSLS is a dedicated synchrotron radiation user facility with two electron storage rings—a vacuum ultraviolet (VUV) ring which operates at an electron energy of 750 MeV and provides infrared, ultraviolet, and soft X-ray photons, and an X-ray ring which operates at 2.5 GeV and provides usable photon fluxes at energies from below 1keV to above 20 keV. Instruments for performing photoelectron, photoionization, fluorescence, and infrared spectroscopy, lithography, microscopy, EXAFS (Extended X-ray Absorption Fine Structure), small-angle scattering, diffraction, crystallography, topography, medical imaging, and other studies are available. Scheduling of

experiments is underway on the VUV ring. Scheduling of the X-ray ring is expected to begin during the fall of 1988, following completion of a major upgrade program presently underway.

The HFBR comprises a 60 megawatt research reactor, systems for irradiation experiments, and nine beam tubes which supply neutron fluxes to 15 experimental stations. A cold neutron source is available for inelastic and small-angle neutron scattering experiments. Monochromatic neutron beams in both the thermal and epithermal energy ranges are provided. Instruments are available for a wide range of scientific studies including neutron diffraction, inelastic scattering, chemical and biological structure studies, and a number of areas in nuclear physics.

This program is funded by the U.S. Department of Energy, and is open to U.S. citizens or permanent resident aliens from U.S. institutions of higher education.

To receive an application form or for further information, contact: Susan White-DePace, User Administrator, NSLS Department, Building 725B, Brookhaven National Laboratory, Associated Universities, Inc., Upton, L.I., New York 11973. Equal Opportunity Employer m/f.

BNL BROOKHAVEN
NATIONAL LABORATORY
ASSOCIATED UNIVERSITIES INC.

UNIVERSITY OF COLORADO AT BOULDER Postdoctoral Position Optoelectronic Materials

A postdoctoral research position is available in the Materials and Devices Program of the Center for Optoelectronic Computing Systems. The work consists of plasma-assisted CVD of advanced materials for novel devices intended for use as optical and optoelectronic computing elements. The applicant is expected to have completed the PhD in Physics, Electrical Engineering, or Materials Science. The candidate should submit a resume, transcripts, and names, addresses, and current phone numbers of three references to Prof. Jacques Pankove, Center for Optoelectronic Computing Systems, Department of Electrical and Computer Engineering, Campus Box 425, University of Colorado, Boulder, CO 80309-0425.

The University of Colorado is an equal opportunity educator and employer and encourages applications from women and ethnic minorities.

RESEARCH SPECIALIST Specimen Preparation/ Electron Microscopy

Applications are invited for a research specialist to be supported on external grant funds, within the Facility for High Resolution Electron Microscopy at Arizona State University. The successful applicant will be expected to (1) develop and maintain techniques of specimen preparation appropriate for high-resolution electron microscopy and microanalysis, including ion-milling, cross-sections and thin film deposition; and/or (2) assist with maintenance, design and modification of vacuum systems and electronic circuits for electron microscopes and evaporation/deposition equipment. There will be opportunity for participation in local ongoing research programs. Prefer candidate with MS or PhD in physical/materials science with prior experience of electron microscopy/metallography. Salary commensurate with qualifications and experience. Application, vita and three letters of reference should be sent to Mrs. Nancy L. Higgins, Center for Solid State Science, Arizona State University, Tempe, AZ 85287-1704 by March 31, 1988.

Arizona State University is a committed Equal Opportunity/Affirmative Action Employer.

CONGLOMERATE SEEKS

Conglomerate seeks various categories of scientists to join start-up team in growth and glamour industry of the 90's, SUPERCONDUCTIVITY. Full and part time consultants and advisors sought to work at their premises anywhere in U.S. Generous remuneration and stock options. Following disciplines sought: physicists, chemists, ceramists, electrical-chemical-mechanical-materials engineers and electromagnetics experts. Resume to Box BXIII-3c/o MRS BULLETIN.

To Reply to
Box Number
write:
Box _____
MRS BULLETIN
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Suite 327
Pittsburgh, PA 15237