

Positions Available

Materials Synthesis through Biology

Staff scientist sought as an independent investigator in Enzymatic Synthesis of Materials Program. Research involves the engineering and use of enzymes and other biological processes in the synthesis of novel materials. Collaborations with UC Berkeley/LBL scientists in use of catalytic antibodies, enzymology, bioorganic chemistry, synthetic organic chemistry and protein modeling. Investigator will select own areas of research consistent with program goals. Position is funded but investigator would be expected to contribute to program growth through grants and contracts. Some program management involved. Possible UC Berkeley teaching.

Ph.D. and research experience in chemistry (synthetic organic, bioorganic, polymer synthesis), biochemistry, materials science, or related field; demonstrated ability to do independent research; ability to work well with senior colleagues and also supervise the work of technicians, postdoctoral fellows and students; ability to speak well. Industrial experience desirable.

Send resume and three references to Lawrence Berkeley Laboratory (specify Job #B/6529), Employment Office, 90-1042, 1 Cyclotron Road, Berkeley, CA 94720. EOE. M/F/H.



LAWRENCE BERKELEY LABORATORY
UNIVERSITY OF CALIFORNIA
U.S. Department of Energy

POSTDOCTORAL POSITION

Chemical Synthesis of Magnetic Materials

Applications are invited for a postdoctoral position for the chemical synthesis of high-performance iron-based particles for flexible magnetic media. The Center for Materials for Information Technology at the University of Alabama has launched a new multidisciplinary research program concentrating on magnetic and optical materials for information storage. The Center is located in the new Bevell Research Building, with \$1.6 M in new equipment, including: a Digital Measurements Systems vibrating sample and torque magnetometer, a 35 GHz spectrometer for ferromagnetic resonance, a Vac-Tec four-target rf and dc sputtering system, an Energy Science electron-beam processor, a Bio-Rad TIR, a Hitachi H-800 STEM, and a Digital Instruments Nanoscope II STM. Additional equipment includes a Hitachi S-3500 SEM. The Chemistry Department has two ENRAF-Nonius CAD-4 x-ray diffractometers, as well as Bruker 500 and 360 MHz and Nicolet 200 MHz NMR, Bruker IFS-88 FTG-UV-Vis lb, Bruker ESP-300-10/7 ENDOR, 2 Varian E-line EPRs, Jobin-Yvon U-1000 Raman, and a VG Autospec mass spectrometer. A PhD in chemistry, materials science, or a related discipline is required and research experience in inorganic and/or organic synthesis is desirable. The annual salary is up to \$25,000. Applicants should send a curriculum vitae, brief statement of research interests, and the names of three references to: Prof. Robert M. Metzger, Department of Chemistry, University of Alabama, Box 870336, Tuscaloosa, AL 35487-0336, USA.

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

CHAIR

Department of Materials Science and Engineering University of Alabama at Birmingham

Applications and nominations are invited for the position of chair of the UAB Department of Materials Science and Engineering. UAB is one of three autonomous institutions in the University of Alabama System. The department consists of eight full-time faculty members, approximately 20 junior-senior undergraduates, and 25 doctoral degree candidates. The faculty currently direct sponsored research programs in excess of \$1M/year. The department offers BS, MS, and PhD degree programs in materials engineering. A PhD degree in materials science is also offered in collaboration with other universities in the University of Alabama System. The Chair will be expected to serve as the UAB campus director of the Materials Science PhD program.

Candidates for the position should have an earned doctorate in materials science, materials engineering, or a related field, and have a record of successful teaching and scholarship. The candidate should demonstrate the leadership qualities necessary to enhance the current growth and quality of the program, and provide interactions with related disciplines. The department is seeking the appropriate leadership to help it continue to advance toward its goal of national recognition as a leader in materials research and education. Position available to all qualified U.S. citizens and resident aliens. Applications should include a resume that contains a description of current research, and a list of future research goals. Applications and nominations will be accepted until the position is filled. Please respond to:

Dr. Martin McCutcheon
Chairman, Materials Science and
Engineering Search Committee
Department of Biomedical
Engineering
University of Alabama at Birmingham
UAB Station
Birmingham, Alabama 35294
Telephone: (205) 934-8420

UAB is an equal opportunity, affirmative action employer.

FACULTY RESEARCH ASSOCIATE High Resolution Electron Microscopy Arizona State University

Applications are invited for the position of faculty research associate to manage the Industrial Associates Program at Arizona State University, operated in association with the NSF-supported Facility for High Resolution Electron Microscopy. The associate will be responsible for the day-to-day operation of the program, including liaising with the current member companies, coordinating and supervising interaction between academic and industrial research staff, and planning for future growth of the program. Applicants must have a PhD in the physical sciences, at least four years postdoctoral experience in high spatial resolution transmission electron microscopy and microanalytical techniques, and demonstrated evidence of a high level of practical competence operating VG, Philips, and JEOL electron microscopes. Salary \$52,500/12 months; job location Tempe, Arizona. Applications, which should include curriculum vitae, and the names and addresses of three referees, should be sent to Chair, IAP Search Committee, c/o Center for Solid State Science, Arizona State University, Tempe, AZ 85287-1704. Proof of authorization to work in the U.S. is also required if hired. Deadline for applications is July 31, 1991.

Arizona State University is an AA/EOE.

Positions Available

**FACULTY POSITION IN MATERIALS
SCIENCE AND ENGINEERING
Lehigh University**

The Department of Materials Science and Engineering at Lehigh University has an opening at the assistant professor level. This position is available to be filled in August 1992. Applicants should have a doctorate in materials science or a related discipline and demonstrated or potential for distinction in research and teaching at both the undergraduate and graduate levels. Of special interest are candidates with an interest in materials processing including synthesis of new materials and new synthetic approaches, "smart materials," theoretical and computer modeling of processes, electronic packaging, thin films and coatings, mechanical processing and joining of materials.

Lehigh University is an equal opportunity employer and welcomes applications from all qualified candidates. Curriculum vitae and the names of three references should be sent to:

Prof. Martin P. Harmer
Chairperson, Search Committee
Materials Science and Engineering
254 Whitaker Laboratory, #5
Lehigh University
Bethlehem, PA 18015

**FACULTY POSITION
Department of Materials Science
Engineering
State University of New York
at Stony Brook**

The Department of Materials Science and Engineering at the State University of New York at Stony Brook expects to appoint an assistant or associate professor by September 1991. Candidates should preferably have postdoctoral experience related to the classification and processing of advanced materials. The Department has excellent characterization facilities (LEED, XPS, AES, EELS, TEM, SEM, x-ray diffraction and topography). The ability to initiate an independent research program and attract outside funding is of importance in addition to teaching skills. Please send curriculum vitae and names of at least three references to: Prof. Clive R. Clayton, Chairman, Department of Materials Science and Engineering, SUNY at Stony Brook, Stony Brook, NY 11794-2275.

SUNY at Stony Brook is an affirmative action/equal opportunity educator and employer.

**FACULTY POSITION
Department of Materials Engineering
Technion - Israel Institute
of Technology**

The Department of Materials Engineering at the Technion has an opening for a tenure-track position faculty member. Applicants must have a PhD degree, be qualified to teach undergraduate and graduate courses in materials science and engineering (knowledge of Hebrew is no prerequisite) and to develop independent and cooperative research programs. Preferred areas of interest include metallurgical processing, physical metallurgy, and surface science and engineering. Interested individuals should submit a resume listing professional experience, publications, research interests, and at least three references to:

Prof. A. Siegmann, Chairman
Dept. of Materials Engineering
Technion City
Haifa 32000, Israel

Applications for the position will be received until position is filled.

**POSTDOCTORAL
RESEARCH ASSOCIATE
Materials Scientist**

Job Site: Troy, NY. Perform lab research studying properties of dielectric materials for use as computer chip components. USE: x-ray diffraction, SEM, infrared spectroscopy, Rutherford backscattering spectroscopy, ellipsometer. REQUIRE: PhD materials science or physics; grad courses in x-ray diffraction, solid state physics; proficiency with SEM, infrared spectroscopy, ellipsometry; 6 mos. lab research mats. sci. analyzing Rutherford backscattering spec data. \$23,000/yr. FT. Submit resume, 2 professional references to: NYS Dept. of Labor, C. Hartman/J. Kelley, 100 Broad St., Glens Falls, NY 12801. Refer to DOT 029 081 014, J.O. N.Y. 000 2378.

Ad Closing for the
September 1991
MRS Bulletin
is **August 1, 1991.**
To place your display
or classified ad,
call Mary E. Kaufold
at (412) 367-3036 today!

Positions Wanted

Versatile, productive PhD materials scientist and condensed-matter physicist seeks research opportunity. Publications: amorphous and epitaxial thin films, process characterization, semiconductors, high-T_c superconductors, metal oxides, and alloys. Technical background: thin-film growth and characterization, surface spectroscopy (XPS, AES), radiation detection and measurement, vacuum science. Reply to Box 7-10, c/o MRS Bulletin.

PhD materials scientist. Over 20 yrs. experience in preparation and characterization of inorganic and organic materials: single crystal growth, thin film deposition and ceramic processing. Managerial experience. Extensive proposal and report writing. Numerous publications and patents. Seeks research/development in industrial or academic position. U.S. citizen. Will relocate. Reply to Box 7-5, c/o MRS Bulletin.

Materials scientist. MS (expected July 1991) materials science, BTech (1990) metallurgical engineering, seeks materials R&D/quality control/new product development/international marketing position. Thesis on high T_c superconducting thin films. Experience in MBE, TEM, SEM, AFM & basic microelectronics laboratory. Location and salary open. Reply to Box 7-15, c/o MRS Bulletin.

TO REPLY TO BOX NUMBER, WRITE:

**Box No. _____, c/o MRS Bulletin
Materials Research Society
9800 McKnight Road
Pittsburgh, PA 15237**