

Positions Available

**TENURE-TRACK
FACULTY POSITIONS
CERAMIC MATERIALS**

**University of Washington
Department of Materials Science
and Engineering**

NORTON ASSISTANT PROFESSORSHIP, a tenure-track faculty position funded by a grant from the Norton Company.

ASSISTANT OR ASSOCIATE PROFESSOR POSITION, a tenure-track faculty position.

Areas of interest for these positions include chemical and physical methods of materials synthesis, electronic, optical and/or mechanical properties, powder properties and processing, composites and applications including manufacturing. Candidates must hold a PhD degree; additional research experience is advantageous. Responsibilities include teaching at the undergraduate and graduate levels, and the development of independent funded research programs in areas of current interest.

Applications for these positions will be accepted until these positions are filled. Send inquiries and applications, including a list of publications, names of 3 references and a set of academic transcripts to:

Prof. T.G. Stoebe, Chairman
Department of Materials Science
and Engineering FB-10
University of Washington
Seattle, WA 98195
(206) 543-2600

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

RESEARCH ASSOCIATE POSITION

**North Carolina State University
Department of Electrical
and Computer Engineering**

Research Associate to be involved in the growth of III-V materials by Atomic Layer Epitaxy (ALE) and Laser-Assisted MOCVD. PhD in EE or related field with experience in material characterization such as Photoluminescence, DLTS, SEM and Transient Response in the picosecond range.

Experience in fabrication and characterization of opto-electronic and microwave devices is also required. Salary: 26,000/year. 40 hrs./wk. Contact the Job Service office at 700 Wade Avenue, Raleigh, NC 27611 or the Job Service office nearest you. Refer to job Order Number NC 7292394.

**PROFESSOR IN THE DEPARTMENT
OF MATERIALS ENGINEERING**

Virginia Polytechnic Institute and State University

Virginia Polytechnic Institute and State University (VPI&SU, also known as Virginia Tech) invites applications for the position of Professor of Materials Engineering.

The Department of Materials Engineering consists of 12 faculty, approximately 100 undergraduate, and approximately 30 graduate students. The curriculum includes topics in the areas of metallic, ceramic, polymeric and composite materials. Faculty in the department have the opportunity to participate in several inter-disciplinary research areas. For example, the University supports a Center for Composite Materials and Structures, a Center for Adhesive and Sealant Science, the Polymer Materials Interface Laboratories, and a Center for Advanced Ceramic Materials. There are materials-oriented faculty in the departments of Chemical Engineering, Engineering Science and Mechanics, Electrical Engineering Chemistry, and Physics.

The College of Engineering is composed of the divisions of Engineering Fundamentals and nine departments offering undergraduate and graduate programs in aerospace, chemical, civil, computer, electrical, materials, mechanical, mining, and ocean engineering, as well as in engineering science and mechanics, industrial engineering and operations research, and agricultural engineering (in coordination with the College of Agriculture and Life Sciences). The College has 285 full-time faculty, and enrolls 4,800 undergraduate students and 1,200 graduate students on-campus. An additional 700 graduate students are enrolled at off-campus locations through both on-site and satellite transmitted courses.

The Commonwealth of Virginia is enjoying strong economic and population growth and is rapidly becoming a major center of commerce and development in the nation. VPI&SU is the senior land-grant University of the Commonwealth, located in Blacksburg in the Appalachian Highlands west of Roanoke. Highly selective in admissions, the University enrolls in its eight colleges some 18,000 undergraduate students and 6,000 graduate and professional students.

The College of Engineering has recently been ranked among the top 20 in national reputation as well as in its expenditures for research. It works closely with Virginia's Center for Innovative Technology in developing research programs to benefit industry. The College was the first among major public institutions to require each student to have a personal computer.

The individual appointed to this faculty position will be expected to conduct an active research program which will excel in an important area of the field of Materials Science and Engineering. Preference will be given to candidates with a record of successful academic leadership, teaching, and research.

Letters of application with accompanying vita and names and phone numbers of at least three references will be reviewed beginning January 15, 1990; the selection is expected to be made in May 1990 with the appointment to begin August 15, 1990. Applications from members of minority groups and women are encouraged. Communications should be addressed to:

Prof. Larry Burton
840 Whittemore Hall
VPI&SU
Blacksburg, VA 24061-0111
(703) 231-4381

VPI&SU is an Equal Opportunity, Affirmative Action Employer.

RESEARCH SCIENTIST

Solar energy research institute in Golden, Colorado seeks Research Scientist to provide electro-optical, structural/chemical characterization and modeling of window layer and absorber materials used in the fabrication of thin-film and single-crystal photovoltaic devices, using spectroscopy, spectrophotometry, and ellipsometry techniques. Prepare papers and articles for publication in scholarly journals. Interact with other scientists doing original research in the same field. Supervise work of other scientists and technicians.

Requires MS in physics and two years experience conducting electro-optical, structural/chemical and device modeling analyses on photovoltaic materials/devices used as absorbers (such as CuInSe₂ and SnO₂) using spectroscopic, spectrophotometric and ellipsometric techniques. Experience may be gained through employment or in educational program.

Salary: \$36,000/year; hours 8:00 a.m. - 5:00 p.m., M-F.

Respond by resume to Colorado Department of Labor & Employment, Division of Employment & Training, 600 Grant Street, Suite 900, Denver, CO 80203, ATT: James Shimada, and refer to Job Order No. CO3052730.

Positions Available

MATERIAL SCIENCE

We are currently assisting clients throughout the United States in staffing various positions in research and development. Openings are primarily at the Ph.D. level; some require supervisory experience. Typical areas of interest include:

Electronic Materials

Growth/characterization/processing/devices; thin films — CVD/PVD/MBE/LPE; photolithography; ion implantation.

Polymers

Characterization; morphology; structure/property relationships; mechanical properties; surface analysis; composites.

Ceramics

Electronic/structural — powder preparation, sintering, characterization, processing, metallization, testing.

Instrumentation/Analysis

Electron microscopy — SEM/TEM; surface science — Auger/LEEDS/ESCA; X-ray diffraction; NMR.

For confidential consideration, please submit a resume to Dr. David P. Parker (Sc.D., MIT).

D.P. Parker and Associates, Incorporated

40 William St., Wellesley, MA 02181
Telephone (617) 237-1220

Our Clients are equal opportunity employers M/F/V/H.

FACULTY POSITIONS University of California, Los Angeles

The Department of Materials Science and Engineering at the University of California, Los Angeles, invites applications for two faculty positions in the following areas of materials science and engineering:

- Ceramics and ceramic processing,
- Composite materials,
- Electronic materials,
- Theoretical materials science.

Candidates for tenure-track positions must have demonstrated outstanding originality, ability, and breadth through graduate work or postdoctoral research. Senior-level appointments will also be considered for individuals with an exceptional record of accomplishment. Qualified minority and female candidates are encouraged to apply. Please send curriculum vitae with a list of publications, names of three references and information on research and career interest to:

The Faculty Search Committee
Department of Materials Science
and Engineering
6531-Boelter Hall
University of California, Los Angeles
Los Angeles, CA 90024-1595

*UCLA is an Equal Opportunity/
Affirmative Action Employer.*

UNIVERSITY OF FLORIDA Department of Materials Science and Engineering

A TENURE-TRACK FACULTY POSITION is available in the Department of Materials Science and Engineering for a qualified individual with expertise in POLYMER SCIENCE AND ENGINEERING. Experience is desired in the theory and/or practice of Polymer Processing, Composites, Design Engineering, Synthesis or Chemical Properties. This position is in addition to the four already advertised by this Department in electron optics, composites, and electronic materials areas. The faculty member is expected to teach graduate and undergraduate courses as well as initiate and sustain sponsored research in his/her area of expertise. A doctoral degree in materials science, polymers, or a related discipline will be required.

The Department of Materials Science and Engineering at the University of Florida currently has 23 faculty, 160 upper division undergraduates, and 110 full-time graduate students with substantial research funding and multidisciplinary academic programs in biomaterials, ceramics, composites, electronic materials, metals and polymers. Major analytical instruments such as XPS, Auger, scanning Auger, SEM, FTIR, TEM, STEM, and a electron microprobe are available in the department.

This position may be offered at the assistant or associate professor level depending upon the qualifications of the individual candidate. The deadline for application is **March 1, 1990**. Applicants should submit a curriculum vitae, statement of research plans, and three letters of recommendation to:

Prof. Chris Batich
Chairman, Search Committee
217 MAE
University of Florida
Gainesville, FL 32611

FACULTY POSITION Faculty of Engineering Tel-Aviv University

Applications are invited for an expected faculty tenure-track position in the Department of Electronic Devices and Materials, Tel-Aviv University, starting Oct. 1990. Candidates should have interest and experience in III-V semiconductor thin-film growth and device fabrication for microelectronic and optoelectronic applications. Duties include responsibility for development of research laboratory and teaching at the undergraduate and graduate levels.

Send letter of application, resume and references by **March 31, 1989** to Prof. Yoram Shapira, Chairman, Department of Electron Devices and Materials, Faculty of Engineering, Tel-Aviv University, Ramat Aviv, Tel-Aviv 69978, Israel. FAX No.: 972-3-5413752; Electronic Mail: SHAPIRA@TAUENG.BITNET.

Positions Available

POSTDOCTORAL APPOINTMENT

Department of Materials Science and Engineering

Applicants are sought to conduct research in one of two areas. The first area involves ion implantation doping studies of ZnSe. Experience in optical (photoluminescence) and/or electrical (c-v, Hall effect, etc.) characterization of compound semiconductors is preferred. The second area will focus on high resolution TEM studies of compound semiconductor heteroepitaxial interfaces. Experience in preparation of samples, high resolution TEM and computer image simulation is preferred.

To apply send resume, graduate and undergraduate transcript and three letters of reference to:

Prof. Kevin S. Jones
 Department of Materials
 Science and Engineering
 214A Rhines Hall
 University of Florida
 Gainesville, Florida 32611-2066
 (904) 392-9872

POSTDOC IN STM AND AFM

The Laboratory for Surface Science and Technology, University of Maine, seeks a postdoctoral fellow to use STM and AFM to study surfaces of polymers. A PhD in physics or related field is required. The position requires a "hands-on" experimentalist with experience in design and construction of ultrahigh vacuum equipment and computer interfacing. Salary: \$30,000. The search will begin immediately and continue until a suitable candidate is found. Send a resume and three letters of reference to Prof. W.N. Unertl, Director, LASST, Sawyer Research Center, University of Maine, Orono, ME 04469.

EEO/AA Employer.

MRS Bulletin-1990 Advertising Rates

Classified: Column inch (includes composition): \$95

Display (Black and White):

Ad Size	1x	4x	6x	12x
1 page	\$805	\$775	\$755	\$735
2/3	685	665	655	645
1/2 island	645	630	620	610
1/2	600	585	575	565
1/3 island	555	540	530	520
1/3	510	495	485	475
1/4	460	445	435	425
1/4 island	450	435	425	415
1/6	390	375	365	355

Standard 2nd Color add \$325

Metallic 2nd Color add \$425

Matched 2nd Color add \$375

Four Color Process add \$650...

The MRS BULLETIN can accommodate special production requirements. Contact MRS for details.

Issue	Closing Date
April	March 5, 1990
May	April 5, 1990
June	May 4, 1990
July	June 6, 1990
August	July 6, 1990
September	August 6, 1990
October	September 6, 1990
November	October 4, 1990
December	November 6, 1990

**Technical Editor
 Materials Research Society**

The Materials Research Society, headquartered in Pittsburgh, seeks a creative and assertive leader to serve as editor of a rapidly growing monthly magazine serving materials research professionals. Responsibilities include establishing issue themes, acquiring and evaluating technical overview articles, writing and directing the rewriting of articles, and soliciting and evaluating news from government, industry, and education. Master's degree in a technical field relevant to materials science and engineering required and knowledge of current developments in one or more major materials research areas desirable. Well organized individual sought with strong writing and editing skills and prior experience in writing and editing for publications serving the technical community. Salary and benefits commensurate with experience. Send resume, samples of writing, names of two references, and relevant salary history to Chairman of Technical Editor Search Committee, Materials Research Society, 9800 McKnight Road, Suite 327, Pittsburgh, PA 15237.

Advertising Contact:

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