

Positions Available

ASSISTANT PROFESSOR POSITIONS

**Materials Science and Engineering Department
Rensselaer Polytechnic Institute**

The Materials Science and Engineering Department of Rensselaer Polytechnic Institute is seeking exceptionally well-qualified candidates for tenure-track faculty positions at the Assistant Professor level. The Department has broad interests and world-class expertise in ceramics and glasses, electronic materials, metals, polymers, and composites.

Candidates must have a doctoral degree and an excellent record of accomplishment in materials research. Dedication to high-quality teaching is essential. Responsibilities of these positions include teaching undergraduate and graduate courses, supervision of graduate students, scholarly research, and generation of significant research funding.

Applications will be considered until the positions are filled. Send inquiries and applications, including a statement of research and teaching goals, a list of publications, and a minimum of three references to:

Prof. Richard W. Siegel, Head
Materials Science and
Engineering Department
Rensselaer Polytechnic Institute
110 Eighth Street
Troy, New York 12180-3590
Phone (518) 276-6373
Fax (518) 276-8554



Rensselaer has a strong institutional commitment to the principles of diversity. In that spirit, we are particularly interested in receiving applications from a broad spectrum of people, including women, minorities, disabled individuals, and veterans.

DIRECTOR

The Wiener Laboratory of the American School of Classical Studies at Athens, Greece

Applications are invited for the position of **Director** of The Wiener Laboratory of the American School of Classical Studies at Athens, Greece. Applicants should have an area of expertise in one of the primary areas of the Lab's research programs (geoarchaeology, human skeletal analysis, zooarchaeology) with an established publication record and demonstrated administrative and fund raising abilities. A strong background in natural science, experience in collaborating with archaeological and classical scholars, and a commitment to Aegean archaeology is desired. Under the supervision of the Director of the School, the Director of the Lab is responsible for developing and administering the research and workshop programs, collections, and facilities of the Lab as well as maintaining and enlarging established networks with other laboratories and institutions. He/she chairs the local administrative committee and an international science advisory committee. Salary (\$30,000-\$40,000) commensurate with rank and experience; housing allowance, qualified for TIAA/CREF after two years if not previously enrolled. Term July 1, 1996 to June 30, 1997, eligibility for renewal. Deadline for applications is **November 15, 1995**. Applicants must include a letter concerning his/her views on the future direction of the Wiener Laboratory, a curriculum vitae, and the names of three references that may be contacted. Application materials should be sent to the search committee chair:

Prof. George Rapp, Jr., Director
Archaeometry Laboratory
University of Minnesota
Duluth, MN 55812, USA
Phone: (218) 726-7629
Fax: (218) 726-6979

**POSTDOCTORAL ASSOCIATES AND RESEARCH POSITIONS IN MATERIALS SCIENCE
Princeton University**

The Princeton Center for Complex Materials (PCCM), an NSF-funded Materials Research Science and Engineering Center at Princeton University is accepting applications for postdoctoral associates and research staff positions. Primary research programs are: Electronic Transport in Non-Fermi-Liquid Materials, Organic Thin Films and Quantum Structures, Microstructured Macromolecular Soft Materials, Bioinspired Processing of Composites. Other research positions may also be available in Princeton Materials Institute research unaffiliated with PCCM. PhD in science or engineering required. Salary commensurate with experience and field. Send CV to: PCCM, c/o Princeton Materials Institute; Princeton University; 70 Prospect Avenue; Princeton, NJ 08540-5211.

Princeton University is an equal opportunity affirmative action employer.

**ADJUNCT LECTURER POSITION
University of Michigan**

The Department of Materials Science and Engineering at the University of Michigan, Ann Arbor, is seeking candidates for a nontenure-track lecturer. Responsibilities include: assisting or leading in the development of new undergraduate teaching materials and methods that place a strong emphasis on multimedia presentation techniques; the development of self-paced, interactive learning modules; participation in the development and teaching of new undergraduate laboratory modules that place a strong emphasis on processing and physical and mechanical property characterization. The department currently enrolls approximately 140 undergraduate students and is an integrated materials program encompassing metals, ceramics, polymers, and EMO materials. Applicants must have a PhD in materials science and a demonstrated interest in undergraduate education. Minimum one year appointment, renewable to three years based on funding and performance. Send resume and list of references to:

Prof. Albert F. Yee, Chairman
Department of Materials Science and Engineering
The University of Michigan
2300 Hayward Street
Ann Arbor, MI 48109-2136
or
afyee@engin.umich.edu

An Equal Opportunity Affirmative Action Employer

ENGINEER

**Michigan Ion Beam Laboratory
Department of Nuclear Engineering
University of Michigan**

Applications are invited for an engineer position in the areas of ion beam assisted deposition (IBAD) and ion implantation and analysis. Responsibilities include operation and maintenance of a high vacuum IBAD system, carrying out experiments and assisting experimenters, as well as assisting in the operation and maintenance of an ion implanter and a tandem accelerator. Applicants should have a minimum of a BS in a field related to surface science and should be knowledgeable in deposition systems and techniques, ion implantation, high vacuum systems, electronics, high voltage systems and power supplies, and must be able to interface with experimenters. Experience with PCs and instrumentation interfacing is preferable. Please submit a resume and three references to: Prof. Gary S. Was, Department of Nuclear Engineering; University of Michigan; Ann Arbor, MI 48109-2104; FAX: (313) 763-4540; e-mail: gsw@umich.edu.

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

Positions Available

**RESEARCH PHYSICIST
Naval Research Laboratory
GS-1310-14**

\$60,925 (or higher step in accordance with regulations)

Pay is based on a 5.48% locality pay adjustment - base pay \$57,760

The Naval Research Laboratory is actively recruiting for a Research Physicist to independently perform research in theoretical and experimental physics and to serve as a research Program Manager with responsibility for formulating research programs, soliciting funds for and guiding research in the areas of bio/molecular engineering, advanced materials, self-assembling structures, colloidal systems, and advanced electro-optic device assessment. The selectee will utilize a number of techniques required to elucidate the structure, physical properties, and function of the microstructures/phases in relation to their molecular architecture. It is expected that the selectee will utilize the results from the basic research programs to formulate application-oriented programs of technological relevance to the Navy and DoD.

Position requires a bachelors degree or higher in physics or a related field, one year of specialized experience equal to the GS-13 level, and demonstrated experience in the areas of complex fluids, liquid crystals, and polymeric systems with special relevance to electro-optic, pyroelectric, fiber optic biosensors, and holographic applications including self-assembling lipid micro- and nano-structures, and cubic phases for biomedical and material development applications as well as demonstrated experience in utilizing and applying the following equipment and techniques: fiber optic biosensors, dielectric spectroscopy, photon correlation spectroscopy, differential scanning calorimetry, polarization and differential interference contrast microscopy, synchrotron techniques, and x-ray and electron diffraction techniques.

To apply: Interested applicants may contact Ms. Patti Reed at (202) 767-3031 to request a copy of Vacancy Announcement #69-0016-95, application forms, and/or information. Applicants should submit a comprehensive Personal Qualifications Statement (SF-171) postmarked by **September 30, 1995** to:

Naval Research Laboratory
Human Resources Office (Attn: Code 1812.1PCR)
4555 Overlook Avenue, S.W.
Washington, DC 20375-5320

An Equal Opportunity Employer-U.S. Citizenship Required.

**DEAN
College of Engineering
University of Washington**

The University of Washington invites applications and nominations for the position of Dean, College of Engineering. The College offers undergraduate, master's, and PhD degrees in all major engineering disciplines. The College has a faculty of 240, 1,250 graduate and 1,700 undergraduate students. It is ranked in the top ten percent of colleges of engineering for its excellence in education and research.

The Dean is responsible for the direction of teaching, research, development, and relations with the external professional community and is the College's representative to the University administration.

We seek a candidate with the leadership and vision necessary to influence the shape of engineering education and science in the 21st century at the University of Washington and in the Pacific Northwest. Candidates should have an established reputation in engineering education as an engineer or applied scientist, a strong record of research accomplishments, and competence in organizational leadership and management. Applicants should be prepared to assume the position by July 1, 1996.

Nominations or applications with resumes should be received by **February 15, 1996**. Please submit to:

Committee on the Deanship of the
College of Engineering
Prof. Jean-Loup Baer, Chair
301 Gerberding Hall, Box 351230
University of Washington
Seattle, WA 98195-1230

The University of Washington is an equal opportunity, affirmative action employer. Women and minority candidates are encouraged to apply.

**MATERIALS ANALYSIS SPECIALIST
PPG Industries Inc.**

PPG Industries Inc. Chemicals Research & Development is in search of a Materials Analysis Specialist. This position involves providing hands-on problem solving and leadership in the Analytical Materials Analysis Laboratory near Pittsburgh, PA. This position will require skills in thermal analysis (TGA, DSC, TMA, DMA, and DEA) and optical microscopy, including optical crystallographic, interferometric, fluorescence, and metallurgical techniques. Project work will involve the solution of materials problems involving polymers, ceramics, pigments, and metals.

Qualified candidates will have a PhD or an equivalent in Materials Science, with at least 5 years related industry experience. The candidate will also have proven problem solving expertise, leadership ability, excellent oral and written communication skills, as well as excellent teamwork skills.

PPG Industries, an equal opportunity employer, offers a competitive compensation package commensurate with experience. Qualified candidates should send a resume along with introductory letter before **October 1, 1995** to:

PPG Industries Inc.
Chemicals Research
and Development
Human Resources-File #AN-2
440 College Park Drive
Monroeville, PA 15146



**RESEARCH STAFF MEMBER
PLASMA MODIFICATION OF MATERIALS
University of Wisconsin-Madison**

The Engineering Research Center for Plasma-Aided Manufacturing at the University of Wisconsin-Madison will be hiring a research staff member in the area of Plasma Modification of Materials. Duties include, but are not limited to: development of plasma implantation processes and experiments for a wide range of materials such as semiconductors, glasses, polymers, and ceramics. The processes are designed to modify material properties such as wear, lubricity, solubility, porosity, and conductivity. Experience with implantation processes, applications of implanted materials, plasma diagnostics and/or surface characteristics would be very desirable. The level of the appointment is dependent upon background and experience. The initial appointment is for one year, and is renewable contingent upon performance and funding availability. The Engineering Research Center for Plasma-Aided Manufacturing is a cross-disciplinary program supported by the National Science Foundation and a consortium of 32 companies. Persons interested in this position should send a curriculum vita to Prof. J. L. Shohet, Director, Engineering Research Center for Plasma-Aided Manufacturing; University of Wisconsin-Madison; 1410 Engineering Drive; Madison, Wisconsin 53706.

The University of Wisconsin-Madison is an EO/AA employer.

Positions Available

**TENURE-TRACK
ASSISTANT PROFESSOR
MATERIALS SCIENCE/CONDENSED MATTER EXPERIMENTALIST
Department of Physics & Astronomy
The University of Toledo**

The Department of Physics and Astronomy at the University of Toledo anticipates an opening at the tenure-track Assistant Professor level effective on or before September 1996. The applicant will be expected to have strong commitments to teaching at both graduate and undergraduate levels, to advising MS and PhD student research, and to the vigorous pursuit of external funding for his/her research program. A PhD degree is required and postdoctoral experience is expected. The candidate is expected to contribute actively to a thin-film/materials science research program with existing strengths in the areas of photovoltaics, integrated optics, and flat panel display technologies. Existing film growth facilities include rf and dc sputtering, plasma-enhanced CVD, pulsed laser deposition, ion beam deposition, and thermal evaporation. Substantial facilities for materials characterization and device analysis facilities support these efforts.

Nominations or applications should include a curriculum vitae, a complete list of publications, evidence of teaching skills, a statement of research and teaching interests, and the names and addresses of a least three references. Please send this information to: Prof. A. D. Compaan, Search Committee; Department of Physics and Astronomy; The University of Toledo; Toledo, OH 43606. Consideration of candidates will begin on November 1, 1995.

The University is an Equal Opportunity/Affirmative Action Employer M/F/D/V.

**FACULTY POSITION IN
APPLIED PHYSICS
California Institute of Technology**

The Applied Physics program at Caltech invites applications for one tenure-track position as assistant professor. We are seeking highly qualified candidates who are committed to a career in research and teaching. Exceptionally well-qualified applicants may be considered at the associate or full professor level. We are especially interested in applicants from the areas of device and/or materials physics as it applies to optics, organic and/or inorganic solid state materials, or any topic within the broadly defined scope of applied physics, including bioscience.

Interested applicants should submit a resume with a list of publications and the names of three professional references to: K. J. Vahala, MS 128-95; Caltech; Pasadena, CA 91125. The term of the initial appointment is normally four years, and appointment is contingent upon completion of PhD.

Caltech is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.



**FACULTY SEARCH
Materials Science
Materials Engineering**

The MIT Department of Materials Science and Engineering has searches in progress for tenure track Assistant Professors. Faculty members are sought with demonstrated potential, creativity and teaching ability in any aspect of the field of materials science and engineering. These positions are potentially open for persons specializing in any of the materials classes (metals, ceramics, polymers or electronic materials), or more broadly in materials science and engineering.

The Department has specific interests in expanding its faculty in the areas of biomaterials, industrial ecology, materials manufacturing, materials chemistry and magnetic materials, but highly qualified individuals with other materials interests will be considered.

Doctorate required and experience desirable. Salaries and benefits are competitive. Positions will be filled only if exceptional candidates are found. Appointment to a more senior position is possible based on experience and accomplishments.

Interested persons should send a complete resume including a list of publications and names and address of three persons who could supply letters of reference. This material should be sent to: **Professor Thomas W. Eagar, Head, Department of Materials Science and Engineering, Massachusetts Institute of Technology, Building 8-309, 77 Massachusetts Avenue, Cambridge, MA 02139-4307.**

MIT is an Equal Opportunity/Affirmative Action Employer
MIT is a non-smoking environment

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

**POST-DOCTORAL RESEARCH
ASSOCIATE-SURFACE SCIENCE,
Analytical Sciences Center, MCR, St. Louis**

Monsanto Company currently has a position available for a Post-Doctoral Research Associate-Surface Science.

The position involves both routine and fundamental characterization of materials (polymers, metals, catalysts, biological and pharmaceutical materials) using Surface Analytical techniques. The principal responsibility includes interaction and collaboration with scientists from the 15 business units of Monsanto whose problems require in-depth, problem-solving using insights from surface characterization. The development of new or improved experimental protocols is anticipated. The opportunity for interaction and participation in Monsanto-sponsored university collaborative programs in surface science is available. This job is a hands-on laboratory position with the opportunity to publish in peer reviewed scientific journals.

Requirements include a Ph.D. in Chemistry, Physics, Chemical Engineering, Polymer or Materials Science with a concentration in Surface Analysis. A strong background and experience in the use of techniques, such as XPS, AES and SIMS is essential. Sufficient understanding of other characterization techniques is desirable to facilitate multidisciplinary research with other Analytical Science Center members. The individual must be a strong team player; possess superior organizational and communication skills; be able to work on multiple projects concurrently and have excellent hands-on technical skills.

Monsanto offers an excellent salary and benefits package. Please send your resume to: **Ruth Ann Norton; Mail Zone O2B; Job Code RMF1; MONSANTO COMPANY; 800 N. Lindbergh Blvd.; St. Louis, MO 63167.** Equal Opportunity Employer.

Monsanto

Monsanto

**MULTIPLE POSITIONS
WITH EXPERIENCE IN THIN FILM
DEPOSITION, FIELD EMISSION
TECHNIQUES, OR DIAMOND
GROWTH CHARACTERIZATION
SI Diamond Technology, Inc.**

SI Diamond Technology, Inc., an aggressive, Houston-based company involved in the development of the next generation of flat panel displays, has multiple openings at their facility in Austin, Texas, for highly motivated, talented people to work on completion of their diamond-based field emission display. These immediate openings require people who have education and/or experience in diamond growth and characterization, thin film deposition techniques, and field emission flat panel displays. A PhD in physics or a related field or 10+ years of experience is required. Salary commensurate with experience. Please send resumes to:

Marijane Ensminger,
Dir./Human Resources
SI Diamond Technology, Inc
2435 North Blvd.
Houston, TX 77098



Hurry to advertise in the MRS Fall Meeting issue of the MRS Bulletin!

November advertising deadline: October 2, 1995

Theme: IC Metallization for Current Manufacturing Applications