



INTERNATIONAL IBERIAN
NANOTECHNOLOGY
LABORATORY

INL-MIT Program

INL – International Iberian Nanotechnology Laboratory (INL), based in Braga (Portugal), is the first fully international research organization in Europe in the field of nanoscience and nanotechnology. As part of a collaboration with the Massachusetts Institute of Technology, the INL is currently seeking candidates for **two Group Leader positions**. The first position will focus on research in the area of **biological approaches to templated self-assembly and nanopatterning**. The second position will lead the effort on **graphene-based nanoelectronic sensor devices** at INL.

Candidates with outstanding CVs and demonstrated excellence in these scientific topics will be especially considered. Candidates with an excellent research track record are sought. Previous industrial laboratory experience will be valued. The work location is Braga (Portugal), but candidates must show availability for temporary relocation between Massachusetts (US) and Braga (Portugal). The start-up package and remuneration scheme is in line with those offered by other International Organizations and according to candidate experience and background. Applicants should forward the application material indicated to the INL directly, with a copy to inl-mit@mtl.mit.edu.

The detailed position announcement can be found at http://inl.int/job_offers

**INL-MIT-2012-05,
Nanotemplating of
Biomolecular Structures**
(Group Leader)

**INL-MIT-2012-06, Graphene
Based Nanoelectronic Sensor
Devices**
(Group Leader)

DEADLINE: April 9th, 2012

ASSISTANT/ASSOCIATE PROFESSOR

Theory and Modeling of Advanced Materials
and Materials Genomics • Institute of Materials Science

The Institute of Materials Science (IMS), in collaboration with the School of Engineering and the College of Liberal Arts & Sciences, at the University of Connecticut (UConn) will be accepting applications for full-time tenure-track faculty positions in Theory and Modeling of Advanced Materials and Materials Genomics. IMS is an interdisciplinary Institute charged by the State to perform education, research, and outreach in the materials sciences.

The successful candidate is expected to have a PhD degree in Materials Science & Engineering, Physics, Chemistry, Chemical Engineering, or other engineering or scientific disciplines whose research is in advanced materials by time of appointment. Equivalent foreign degrees are acceptable. The positions are intended primarily for junior faculty members at the Assistant Professor level, however, exceptional candidates may be considered for a higher level appointment. The successful candidates' academic appointments will be at the Storrs campus. Each of the candidates will have an appointment in the academic department consistent with their background, with office and research labs in the IMS. For details on the position, qualifications, and application instructions please visit www.jobs.uconn.edu. (Search # 2012335)

The University of Connecticut is an EEO/AA employer.



University of
Connecticut



Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

Professor of Soft Materials

The Department of Materials at ETH Zurich (www.mat.ethz.ch) invites applications for a faculty position (on any professorial level) in the area of Soft Materials. Of particular interest are polymers, colloids, biological systems, composites, or other complex materials comprising a “soft” phase. The successful candidate should have a strong experimental background and have an interest in understanding the fundamental interaction mechanisms in such materials. His/her research interests should range from nanoscopic to macroscopic length scales, and should take into account aspects of sustainability in the development of new materials. Industry experience would be an advantage.

It is expected that close collaborative relationships with other members of the Department will be established and that the candidate will teach both students of Materials Science at all levels and offer specialized courses for students of other disciplines (e.g. Physics, Chemistry, or Engineering). Undergraduate courses are taught in German or English, Master's degree courses are taught in English.

Please apply online at www.facultyaffairs.ethz.ch. Your application should include your curriculum vitae and a list of publications. The letter of application should be addressed to the President of ETH Zurich, Prof. Dr. Ralph Eichler. The closing date for applications is 30 April 2012. ETH Zurich is an equal opportunity and affirmative action employer. In order to increase the number of women in leading academic positions, we specifically encourage women to apply. ETH Zurich is also responsive to the needs of dual-career couples and is a family-friendly employer.

Yale

Postdoctoral Fellow Positions

Center for Research on Interface Structures and Phenomena

The Center for Research on Interface Structures and Phenomena (CRISP) at Yale has two postdoctoral fellow position openings, one involves first principles theoretical modeling of complex oxide surfaces and interfaces, and the other focuses on experimental fabrication and characterization of multifunctional complex oxides.

The theory group focuses on performing first principles theoretical studies of the structural, mechanical, chemical, and electronic properties of complex oxide interfaces and surfaces by both applying state-of-the-art methods and developing novel approaches for dealing with electronic correlations. The candidate should have a PhD degree in physics, chemistry, materials physics, or a related field and have significant prior experience with first principles calculations.

The experimental group aims to develop novel epitaxial complex oxide materials using advanced growth and characterization techniques, including molecular beam epitaxy, low temperature transport measurements, scanning probe microscopy, and synchrotron x-ray scattering techniques. We are looking for candidates who have expertise in a physics-based approach to the study of materials and experience in materials growth and characterization (e.g., molecular beam epitaxy, scanning probe microscopy, and synchrotron diffraction).

Applications containing a C.V., a cover letter describing research interests and goals, a list of publications, and names and contact information for three letter of recommendation writers (to be sent upon request) should be sent to ayse.kose@yale.edu. Kindly have all electronic mail begin its subject with "CRISP POSTDOC:" followed by the applicant's surname.

Yale University is an Equal Opportunity employer, and applications from underrepresented groups are encouraged.

Institut national de recherche scientifique (INRS) is a graduate and post-graduate research and training university. One of Canada's leading research universities in terms of grants per professor, INRS brings together some 150 professors and close to 700 students and post-doctoral fellows in its centers in Montreal, Quebec City, Laval, and Varennes. Conducting fundamental research essential to the advancement of science in Quebec as well as internationally, INRS research teams also play a critical role in developing concrete solutions to problems facing our society.

The Énergie Matériaux Télécommunications Centre seeks **to fill a tenure-track position of**

PROFESSOR-RESEARCHER BIONANOTECHNOLOGY (DS 11-04)

The detailed position announcement, eligibility requirements and the application process are available at the INRS website at the following link: www.inrs.ca/english/english/career-opportunities

INRS is committed to equity in employment and diversity.



WWW.INRS.CA

INRS
Université d'avant-garde

2012
MRS
SPRING
MEETING

MRS CAREER CENTER

Meet Your Next Employer ...

Show off your talents to the world's most prestigious universities, laboratories and high-tech firms. FREE of charge to all MRS Members, the Career Center provides targeted employment opportunities to candidates seeking positions in the scientific community.

- Review open positions tailored to the materials research industry
- Interview with prospective employers
- Visit on-site recruitment booths and network with technical staff

For additional information, visit www.mrs.org/S12-career-center



CLEMSON

MATERIALS SCIENCE AND ENGINEERING

J. E. Sirriner Textile Foundation Endowed Chair Advanced Polymer Fibers

The Clemson University School of Materials Science and Engineering is soliciting applications and nominations for the J. E. Sirriner Textile Foundation Endowed Chair in Advanced Polymer Fibers. Supported by an endowment approaching \$8M, the Sirriner Chair will be a distinguished scholar in Materials Science and Engineering, with a distinguished track record of scholarship in polymer materials science, who can lead the efforts in the development of fundamental science and engineering of new fiber-based polymeric materials. The endowment resulted from funding by the J. E. Sirriner Textile Foundations and the South Carolina Research Centers of Economic Excellence Act, both of which stipulated that the chaired professor encourage knowledge-based economic development and academic excellence.

We are looking for a dynamic, innovative leader with a distinguished record of accomplishment of scholarship. The candidate will hold a PhD degree in polymer-related discipline and will develop and teach undergraduate and graduate courses related to polymer materials science and engineering, and establish a strong and sustained research program. In addition to being a proven leader and mentor, the Sirriner Chair will have extensive industrial and governmental contacts, a solid history of interdisciplinary research, support and outreach activities, and a proven innovation record. It is expected that the successful candidate's activities will further advance the fiber science and engineering field and develop new high value-added fiber-based applications that will build on the existing knowledge base of fiber expertise within the school and university. Ideally, the candidate being entrepreneurially minded, will have either created or consulted with new firms or have quantifiably contributed to business development or technology entrepreneurship. As a faculty member within the School of Materials Science and Engineering, the candidate will be responsible for development and teaching of undergraduate and graduate courses, establishment of a strong and sustained research program, and demonstration of professional service.

MSE faculty members working on fiber-based materials are involved in several large research programs including an NSF EFRI program on fiber-based microfluidics inspired by insect physiology and anatomy, NSF I/UCRC Ceramics Composites and Optical Materials Center, collaborative program with Air Force Research Laboratories on functional polymeric materials, ONR/DoD MURI program on mechanism-informed materials design, Center for Advanced Engineering Fibers and Films, and Center for Optical Materials Science and Engineering Technologies. For more information about MSE, see the website <http://www.clemson.edu/mse/>.

Applicants should submit a cover letter, full curriculum vitae, and a list of five references. The application package should be sent by email to Dr. Kostya Kornev, Search and Screening Committee Chair, kkornev@clemson.edu, with a subject line "Sirriner Chair applicant." Informal inquiries may also be directed to this email address. Applications received by March 15, 2012 will receive full consideration; however, the search will remain open until the position is filled.

Clemson University is an Affirmative Action/Equal Opportunity employer and does not discriminate against any individual or group of individuals on the basis of age, color, disability, gender, national origin, race, religion, sexual orientation, veteran status, or genetic information. Clemson University is building a culturally diverse faculty committed to working in a multicultural environment and encourages applications from minorities and women. Clemson University is interested in candidates who can contribute to the cultural diversity and excellence of the academic community through their research, teaching, and/or service.



POSTDOCTORAL FELLOWSHIPS

Oxide Materials and Devices Research Harvard University

Applications are invited for post-doctoral positions at the School of Engineering and Applied Sciences, Harvard University. The project will be related to complex oxide materials science and semiconductor device physics with potential applications to renewable energy technologies and advanced electronics. Prior hands-on experience in one or more areas such as thin film synthesis and electronic transport measurements in oxide semiconductors, lithography and device fabrication, and high temperature electrical measurements is desirable. The project will have a strong experimental focus and will encompass both materials science studies such as thin film synthesis, physical characterization as well as electronic/ionic transport aspects.

We are seeking highly motivated candidates with an outstanding academic record and publications in related fields. The candidate should have a PhD degree in Physics, Applied Physics, Materials Science, Chemistry, Engineering, or related disciplines. Applicants should send their CV, list of publications, and contact information of three references to LaShanda Banks at lbanks@seas.harvard.edu. Please include "PDF Application" in the subject line.

Harvard is an Equal Opportunity/Affirmative Action Employer. We strongly welcome applications from qualified women and minority group members.

LECTURER Northwestern University

Teach and develop classes in mechanical properties and design, behavior of materials, and mechanics of biological materials and systems. Conduct research on mechanics of biological systems, especially biomembranes. PhD degree in Materials Science required. Apply to l-gerety@northwestern.edu; Northwestern University, 2220 Campus Drive, Evanston, IL 60208.

AA/EQE



FACULTY POSITION

Department of Applied Physics and Materials Science

The Department of Applied Physics and Materials Science within the Division of Engineering and Applied Science at Caltech invites applications for a tenure-track position at the assistant professor level. We are seeking highly qualified candidates committed to a career in research and teaching. In addition to applicants from the traditional areas of materials science and engineering, we are interested in applicants with an interdisciplinary background spanning these and other areas such as computational methods, surface science, nanoscience, and energy science and technology.

Candidates are required to submit a current CV, research and teaching statements, copies of key publications, as well as a list of three to six references. Interested applicants should submit an electronic application by visiting <http://eas.caltech.edu/positions/>. Initial appointments at the assistant professor level are for four years and are contingent on completion of the PhD degree.

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



Los Alamos National Laboratory (LANL) is a premier national security research institution, delivering innovative scientific and engineering solutions for the nation's most crucial and complex problems.

Deputy Manager, Polymer and Coatings Group

The Polymer and Coatings Group (MST-7) in Materials Science & Technology Division is an organization committed to scientific excellence, with a team of great breadth and depth of talent applied to scientific and technical problems of importance to the nation and world. Contributing to LANL's High Energy Density Physics, Polymer Science and Engineering, Coatings, Nuclear Fuels research, and Characterization and Forensics capabilities, our research is applied to programs including inertial confinement fusion, nuclear weapons programs, directed stockpile and lifetime extension programs, global security, homeland defense and civilian applications of materials technologies.

The successful applicant will devote 50% time to assist the Group Manager in managing our scientific portfolio with an institutional outlook, refining the group vision and mission, and program development. The other 50% of the time will be for value-added technical activities.

We are looking for a record of experimental scientific research and refereed publications in at least one of the critical areas of this portfolio (polymer science, polymer engineering, mechanical engineering, surface science and coatings); demonstrated scientific leadership and management skills; and at least a BS in one the disciplines relevant to the group. The position requires a DOE Q clearance, which normally requires U.S. citizenship.

Applications may be submitted at: <http://go.usa.gov/Q8c>. (Job: IRC2829)

EOE

www.lanl.gov/jobs

Postdoctoral Research Scientists

Energy Frontier Research Center

The Columbia University Energy Frontier Research Center, supported by the Department of Energy and Columbia University, is seeking outstanding candidates for Postdoctoral Research Scientists. The Center is dedicated to the vision of developing enabling science and technology that can drive new generations of highly efficient thin film and hybrid solar cells.

Candidates should hold a PhD in Chemistry, Physics, Applied Physics, Electrical Engineering, Materials Science, Mechanical Engineering, or related science. An additional one or two years of postdoctoral experience is especially desirable. For details, please visit www.cise.columbia.edu/efrc/.

The research program consists of research activities to investigate (1) fundamentals of charge transport in Nanoscale and molecular systems; (2) experimental and theoretical investigations of multiple exciton generation in Nanoscale systems; (3) synthesis and evaluation of new molecular clusters for solar energy applications; and (4) device structure, characterization, and integration for development of prototypical solar cell devices.

Interested candidates should send a letter, a copy of current CV, and the names (with email contact information) of three academic references to James Yardley at [jy307@columbia.edu](mailto: jy307@columbia.edu) and Catherine Tissot at [ct2119@columbia.edu](mailto: ct2119@columbia.edu). Applicants should respond by March 15, 2012.

Columbia University is an Equal Opportunity/Affirmative Action Employer.



Faculty Positions

Materials Science and Engineering



The Department of Materials Science & Engineering (MSE) at Boise State University plans to hire three tenure-track faculty by fall 2012 to help grow its undergraduate and graduate programs. Hires will be made at the Assistant, Associate, or Full Professor level. A doctoral degree in MSE, or a closely related field, is required. Successful candidates will be expected to be highly collaborative, contribute significantly to both graduate and undergraduate research, and make balanced contributions to teaching, research, and service.

Faculty are being sought who have expertise that support or are complimentary to strategic research areas of the department and university (<http://coen.boisestate.edu/mse/>).

With approximately 20,000 students, Boise State is the largest university in Idaho and is home to a thriving and energetic new MSE program. The College of Engineering is experiencing tremendous growth and enjoys support from the intermountain west's high-tech industry. Boise offers convenient access to outdoor recreation, including world-class whitewater, skiing, biking, fishing, and camping.

Review of applications will begin **March 15, 2012** and will continue until the position is filled. Interested applicants should submit cover letter, CV, statements of teaching and research interests, and a list of three references to [MSEsearch@boisestate.edu](mailto: MSEsearch@boisestate.edu).

Additional details available at <http://coen.boisestate.edu/mse/Opportunities/>.

EEO/AA Institution; Veterans preference may be applicable.



Lecturer

Department of Materials Science and Engineering | College of Engineering
University of Illinois at Urbana-Champaign

The Department of Materials Science and Engineering (www.matse.illinois.edu) invites applications for a full-time, untenured position at the rank of Lecturer. We are looking for a dynamic, motivated individual who will contribute to the educational mission of the department. The Lecturer will develop and teach courses in hard materials and mechanics that will be targeted to undergraduate students. In addition, successful applicants will be expected to be involved in undergraduate and masters research programs, capstone design projects, and student advising.

The position requires a PhD degree in Materials Science and Engineering or a relevant engineering/scientific field. Prior experience with teaching at the college or university level is preferred.

The position is a full-time, nine month academic year appointment. Salary is competitive and based on experience. The desired starting date is August 16, 2012. The initial appointment will be for one year with the possibility for renewal on an annual basis thereafter based on funding and performance reviews.

To apply, please create a candidate profile at <https://jobs.illinois.edu> and upload a Curriculum Vitae with the names and contact information for three professional references and a letter of interest which includes teaching interests and evidence of innovative teaching in a university setting. The closing date is **March 31, 2012**. Interviews may be conducted before the closing date but no decision will be made until after the closing date.

For further information about the application process, please contact the department by e-mail at mse@illinois.edu or by telephone at 217-333-1441.

Illinois is an Affirmative Action/Equal Opportunity Employer and welcomes individuals with diverse backgrounds, experiences, and ideas who embrace and value diversity and inclusivity. (www.inclusiveillinois.illinois.edu)



FACULTY POSITION

Department of Materials Science and Engineering

The Department of Materials Science & Engineering at Drexel University (www.mse.drexel.edu) is seeking applications with a demonstrated record of excellence in materials science and materials engineering for a tenure-track faculty position. Primary consideration will be given to candidates with expertise in microstructural science. Specific areas of interest include but are not limited to computational analysis of microstructure and its evolution, microstructural effects in electrochemistry and materials applications to materials for energy, and the role of microstructure on degradation of materials during service due to environmental effects, irradiation, and other extreme conditions. Candidates with research interests synergistic with existing strengths of the department, including nanomaterials, materials in extreme environments, and advanced materials design and processing are encouraged to apply. Depending on the outcome of a separate concurrent search, the Anne Stevens Assistant Professorship may be available for successful female candidates.

Outstanding students, a dynamic and accomplished faculty, dedicated staff, and investments in infrastructure and key instrumentation within a fully staffed materials characterization facility in recent years have contributed to enhancing the quality of our academic programs and the visibility of our research profile, which was recently ranked #11 among all materials PhD programs in the US by the National Research Council.

Applicants should submit a cover letter; a full curriculum vitae; statements of research and teaching plans; and the names and contact information of three references online at <http://www.materials.drexel.edu/faculty/positions/>. Applications are accepted on a rolling basis.

Drexel University is an Equal Opportunity Employer.



Aalto University is a new multidisciplinary science and art community in the fields of technology and science, business and economics, and art and design. The University's cornerstones are its strengths in education and research.

Aalto University School of Chemical Technology invites applications for:

Tenure Track Position in Polymer Technology

The above mentioned position is located in the Department of Biotechnology and Chemical Technology, chemtech.aalto.fi/en.

Research on synthesis and properties of polymers is one of the core fields in modern materials science. Aalto University is aiming to strengthen this field by opening a tenure track position in Polymer Technology. We search excellency in polymer chemistry, covering polymer synthesis, which can allow e.g. advanced structural control, functional materials, biopolymers and their applications.

To see the complete position description and the requirements for applicants, please go to aalto.fi/en/openpositions.

The closing date for applications is April 5th, 2012. The position will be based in Espoo, Finland. More information on the Aalto tenure track system is available at aalto.fi/en/tenuretrack.

aalto.fi