



UNIVERSITÄT
DES
SAARLANDES

Saarland University is a Campus university with international alignment and pronounced research profile. A number of research institutes in the vicinity of the university and dedicated support for the foundation of start up companies bring about an ideal field for innovation and technology transfer.

Saarland University is seeking an outstanding scientist for the position of

Professor (W3) in experimental methods of materials science and engineering (succession Prof. Dr. rer. nat. H. Vehoff)

We are seeking to attract an individual with an excellent international reputation in materials science and engineering who has experience in modern fields of experimental characterization of materials.

The candidate is expected to teach undergraduate and graduate courses in experimental methods, as well as theoretical principles, of materials science. Key aspects should be physics of materials and experimental methods, especially high resolution analytic methods for materials characterization on the nanoscopic scale. In addition, the candidate must actively support our international Bachelor (ATLANTIS) and Master-level degree programs (EEIGM and AMASE).

The candidate's focal points in research are materials properties from the microscopic to the macroscopic scale. Of particular interest is the mechanical behavior of materials, as well as modern nanoscopic methods for materials characterization and analysis.

Materials Science and Engineering has a long tradition at Saarland University. The fundamental research of the Materials Science and Engineering Department is devoted towards investigating the micro-, and nanostructural basis for the properties of metals, polymers and ceramics, with a focus on the influence of interfaces.

Ideally, the candidate is eager to pursue interdisciplinary collaborations between the Materials Science and Engineering Department at Saarland University and adjoining disciplines. The candidate is prepared and capable to cooperate with research institutes located in Saarbrücken that are close to the university, such as the Leibnitz Institute for New Materials (INM), Fraunhofer Institute for Non-Destructive Testing, Fraunhofer Institute for Biomedical Engineering.

Collaborations crossing the boundaries with partners from SaarLorLux are especially supported in the framework of the project "University of the Greater Region" (www.uni-gr.eu).

Formal requirements include a PhD in a relevant field, an outstanding record in research, as well as additional accomplishments like habilitation or equivalent scientific achievements. Experience in management of scientific research is desirable.

Female candidates are encouraged to apply and will be treated favorably in case of equal qualification.

Given equal qualifications, handicapped applicants will be considered on a preferential basis.

Applications, including CV, a statement detailing research and teaching experience and a list of publications should be sent to: **Universität des Saarlandes, Dean Prof. Dr. W.F. Maier, Campus C 4 3, 66123 Saarbrücken, Germany.**

Should you have any further questions don't hesitate to contact Professor W. Possart, Tel. +49-(0)681/ 302-2458, w.possart@mx.uni-saarland.de.

Review of applications will begin **September 15, 2011.**



Senior Executive Service (SES)

Vacancy Announcement

U.S. Army Research Laboratory

Refer to Announcement

#DA-06-2011

Closing: September 2, 2011

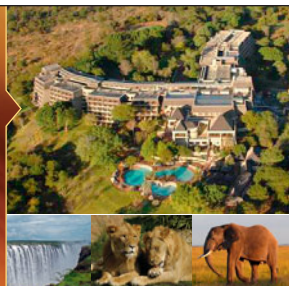
**Director, Weapons & Materials
Research Directorate
Aberdeen Proving Ground, MD**

Duties: Responsible for managing and directing strong exploratory development efforts toward the solution of specific military problems related to weapons systems, which involve all aspects of ballistics research; weapons and armaments technologies; armor and survivability; and materials and manufacturing research and technologies. The Director leads a workforce of approximately 450 civilian scientific, professional, admin, technical, military and support personnel using a broad knowledge of physical sciences and associated engineering and mathematics.

Salary: \$119,554 to \$165,300

To Apply: Visit www.usajobs.gov, search on Announcement Number and follow instructions listed under "How To Apply."

ANNOUNCING...



The 6th International Conference of the Africa Materials Research Society

December 11–16, 2011

Elephant Hills Resort, Victoria Falls, Zimbabwe



For more details visit
www.mrs.org/africa-2011



BROOKHAVEN NATIONAL LABORATORY

ASSISTANT DIRECTOR Center for Functional Nanomaterials

BNL's Center for Functional Nanomaterials (CFN) seeks an accomplished scientist to work along with the CFN director and the other members of the management team in developing the CFN into an internationally renowned user-oriented research center. This position is a full time opportunity for an Assistant Director of CFN. The primary responsibility of the successful candidate will be the development of the CFN's external programs, namely, the users program in all its aspects, focused collaborations with other research institutions, and outreach activities. If interested, the Assistant Director will also have the opportunity to pursue research aligned with the energy-related themes of the CFN.

Minimum requirements include PhD degree in materials science or engineering, physics, chemistry, biology, or related fields and four years of postgraduate experience; record of scientific achievements and experience in managing user programs/facilities or outreach programs; and excellent oral and written communication and interpersonal skills. We invite you to consider Brookhaven National Laboratory for employment. To be considered for this position, apply online at www.bnl.gov and click Jobs, then click Search Job List and apply to Job #15777.

Brookhaven National Laboratory is an equal opportunity employer committed to building and maintaining a diverse workforce.



DIRECTOR, JOHN A. DUTTON e-EDUCATION INSTITUTE

The Pennsylvania State University, University Park, invites applications for Director of the John A. Dutton e-Education Institute. Since 2000, the Dutton Institute has been developing and offering award-winning online programs across undergraduate and graduate levels in the College of Earth and Mineral Sciences. Currently the Institute includes over 50 personnel worldwide. E-Education is a major strategic College and University priority.

The Director candidate should present a record of effective leadership and accomplishments in the identification, development, and operation of high-quality online programs. Experience leading curricular design and development, as well as program administration and delivery that meets market opportunities, is crucial. The candidate should have the knowledge and vision to work across the College's disciplines and should possess background and research skills in distance education. This position is located in the College of Earth and Mineral Sciences and is coordinated with the university's World Campus.

A master's degree or higher is required. Strong strategic development skills, communication capacity, and business acumen are imperative.

Applications should include a letter describing experience and qualifications and the address/email of three referees. Applicants should request that the reference letters be forwarded directly at time of application. All materials should be submitted electronically to Deb Sipe at sipe@ems.psu.edu. Review of applications will begin on September 2, 2011.

The Pennsylvania State University is committed to affirmative action, equal opportunity, and the diversity of its workforce.

Opportunities as **limitless** as Penn State.
www.psu.jobs

Carnegie Mellon

FACULTY POSITION

Computational Materials Science and Engineering

The Department of Materials Science & Engineering in the Carnegie Institute of Technology of Carnegie Mellon University seeks to appoint a faculty member in the area of Computational Materials Science and Engineering. Initial appointments are anticipated to be made at the rank of Assistant Professor, but appointments at the ranks of Associate Professor or Full Professor may be available for candidates having commensurate experience. Candidates are expected to have demonstrated the ability to conduct research at the highest level and to have a record of, or the promise for, outstanding teaching and supervision of students.

Carnegie Institute of Technology, ranked #6 among engineering schools by USNWR, is known for its strong collaborative culture. Faculty members enjoy strong research support, modest teaching loads, excellent students, and comprehensive benefits.

Applicants should submit a cover letter, curriculum vitae, contact information for at least three professional references, and a statement (limited to three pages) that describes research and educational interests. All application materials should be sent to msearch@andrew.cmu.edu.

Applications will be reviewed as they are received until the position is filled. Women and members of traditionally underrepresented minority groups are particularly encouraged to apply.

Carnegie Mellon University is an Affirmative Action/Equal Opportunity Employer.



Postdoctoral Research Opportunities Nano-Materials and Devices

Postdoctoral Fellow research positions in the area of nano-materials and devices are available under the direction of Dr. Eric Vogel, Professor in the School of Materials Science and Engineering (www.mse.gatech.edu) at Georgia Tech beginning this Fall semester. Candidates must have a PhD degree in Materials Science, Physics, Electrical Engineering, or related fields. Prof. Vogel is currently at the University of Texas-Dallas, and his current research interests include graphene, neuromorphic materials/devices, biosensors, and III-V semiconductor materials/devices. Applicants should email their resume, a statement of research interests, and a list of at least three academic or professional references as soon as possible to em.vogel@yahoo.com.

The Georgia Institute of Technology is one of the nation's top research universities and is located in the heart of the city of Atlanta, Georgia. The School of Materials Science and Engineering (MSE) at Georgia Tech is routinely ranked among the nation's leading undergraduate and graduate programs by the U.S. News and World Report. Georgia Tech has a wide range of facilities for nano-material, device fabrication, and characterization (<http://www.nano.gatech.edu/facilities/>).

Georgia Tech is an Affirmative Action/Equal Opportunity Employer. Applications from women and under-represented minorities are strongly encouraged.



Argonne
NATIONAL LABORATORY

DIRECTOR, MATERIALS SCIENCE DIVISION ARGONNE NATIONAL LABORATORY Chicago Illinois

Argonne National Laboratory invites applicants for the position of Director of the Materials Science Division. The Division Director provides scientific leadership and line management for the division's efforts in areas that include the science of synthesis; condensed matter and materials physics; materials chemistry; nanoscience; electron, neutron and x-ray scattering; and energy conservation and storage. The Division Director's responsibilities also include promoting interactions with other Argonne programs with particular emphasis on x-ray sciences, electrical energy storage, and leadership computing; and representing the Division with Department of Energy and other sponsors.

The successful candidate should have a Ph.D., internationally recognized research stature, 15+ years of relevant experience in materials science and/or closely related fields, and experience in managing a multi-program, multidisciplinary research organization. For a description of Divisional programs, please visit www.msd.anl.gov.

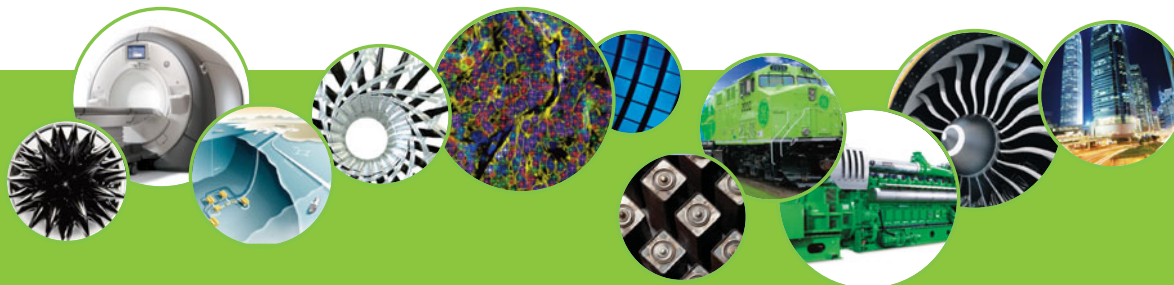
Argonne offers an excellent compensation and benefits package. Interested candidates should send a curriculum vitae, list of publications and patents, professional references, and statement of research interests to MSDDirectorApplicant@anl.gov.

Argonne National Laboratory is a multi-program laboratory managed by UChicago Argonne, LLC for the U.S. Department of Energy's Office of Science. Argonne's site is located about 25 miles southwest of Chicago on a beautiful 1500 acre campus.

For additional information, please refer to Argonne's Home Page at www.anl.gov.

Argonne is an equal opportunity employer and we value diversity in our workforce.

GE Global Research



Redefining what's possible in Ceramics and Metallurgy Technologies

Our Ceramics and Metallurgy Technology (CMT) organization is at the forefront of developing new/modified materials and processing techniques for exciting applications in the healthcare, water, aviation, energy, and renewable power sources. The materials and processes developed will go into some of the world's most successful and visible product offerings, impacting the world and people's lives.

GE Global Research, the hub of technology development for GE's businesses, is hiring for graduate-level positions in a variety of engineering and science disciplines.

To see a current list of open positions, visit jobs.gecareers.com and search "Join GRCCMT". Find us on Facebook at www.Facebook.com/GEGlobalResearchCareers!



GE imagination at work

Equal Opportunity Employer



The Center for Nanophase Materials Sciences (CNMS) at the Oak Ridge National Laboratory (ORNL)

is seeking a research staff member in computational and theoretical nanoscience to join its Nanomaterials Theory Institute (NTI). The CNMS is a Department of Energy (DOE)/Office of Science Nanoscale Science Research Center (NSRC) operating as a highly collaborative and multidisciplinary user research facility. The CNMS is one of five DOE NSRC's that form an integrated national user network. The central organizing concept of CNMS is to provide unique opportunities to understand nanoscale materials, assemblies, and phenomena, by creating a set of scientific synergies that will accelerate the process of discovery. Close partnerships exist between the Institute at the CNMS and the Computational Chemical and Materials Sciences Group within the Computer Science and Mathematics Division and the National Center for Computational Sciences (NCCS). Collaborations across ORNL programs enhance opportunities for theoretical contributions to a wide range of energy-related and frontier nanoscience research, including materials, chemical, energy, and computational sciences. The result is a vibrant and active research community at ORNL with many opportunities for performing cutting-edge computational and theoretical science. The CNMS is currently interested in increasing its expertise in the simulation, modeling and theory of hybrid materials that have applicability to important practical problems such as photovoltaics, electrochemical energy storage, nanoelectronics, and catalytic systems.

The successful candidate will join an interdisciplinary team of physicists, chemists, materials scientists, computer scientists, mathematicians, and engineers in research and development programs in world-class nanoscale scientific research. For this position, scientists with demonstrated expertise in the detailed investigation of nanomaterials, including organic-based, metallic, and oxides-based materials are of particular interest. Demonstrated expertise in methods based on classical mechanics (molecular mechanics, dynamics) and quantum density functional theory is required as well as a solid working knowledge of quantum many-body theory approaches. Experience in software engineering techniques to scale computational methods to perform efficiently on massively parallel, leadership-class computers is a plus, as is exposure to and understanding of nanomaterials synthesis and characterization using atomic probes and transmission microscopies.

This position requires a Ph.D. in engineering, physics, chemistry, materials sciences, or a related discipline with 3–5 years experience or an equivalent combination of education and experience. Candidates must have a proven record of excellence in technical or research accomplishments that include self-directed research, publications, excellent communications skills, a strong mentoring/leadership record, and a desire to work in a team environment. Applicants should have a practical knowledge of scientific software engineering techniques and programming languages, contemporary parallel architectures, and scalable parallel-programming methods.

To apply, visit jobs.ornl.gov. View Open Positions and enter *NB50277659* into the search field. Questions? Call 1-866-963-9545 or email ornlrecruiting@ornl.gov.

Oak Ridge National Laboratory has spent the last decade investing billions in scientific infrastructure mapped to the most exciting and urgent science in the world. The unmatched caliber of the Lab's facilities gives our researchers and the user community the opportunity to conduct the most important science of their careers. Find the career you have been waiting for at jobs.ornl.gov. UT–Battelle is recognized by our employees and the community as an inclusive environment where diversity is valued and individuals and teams are inspired to contribute fully to the organization's success. ORNL is an equal opportunity employer.

ASSISTANT PROFESSOR Materials Department • University of California at Santa Barbara

The Materials Department in the College of Engineering at the **University of California at Santa Barbara** is seeking applications for a tenure-track, Assistant Professor position in the area of Inorganic Materials.

Candidates should demonstrate the ability to build up an interdisciplinary, experimental research program in the areas of design, growth, and science of new and forward-looking functional inorganic materials. Truly exceptional candidates will also be considered at the Associate Professor level.

Applications consisting of a resume, a statement of teaching philosophy, a brief (3-page limit) statement of research interests, and the names and addresses of at least three references, should be submitted online at <https://ucsb-coe.redbrickrs.com/apply/inorganic>. The application deadline is **November 1, 2011**.

The Materials Department is especially interested in candidates who can contribute to the diversity and excellence of the academic community through research, teaching, and service.

EO/AA Employer



ENDOWED PROFESSORSHIP Energy Storage Research

The University of Wisconsin-Milwaukee (UWM) invites applications for the Johnson Controls Endowed Professorship in Energy Storage Research in the College of Engineering & Applied Sciences. This endowed professorship results from significant philanthropic support from Johnson Controls Inc. (JCI) to establish a statewide partnership to foster innovative, collaborative, and internationally recognized research in the area of energy storage devices, and to deepen and expand the existing mutually beneficial partnership among JCI, UWM, and UW-Madison. Three dedicated funds will support this endowed professorship: the JCI Endowed Professorship in Energy Storage Research Fund at UWM, the JCI Energy Storage Research Lab Fund and the JCI Graduate Research Fellows Fund at the UW-Madison.

We seek an exceptional individual to be appointed as a tenured Full Professor. Candidates must be recognized as a national and international expert in energy storage technology education and research. Required qualifications include: PhD degree or equivalent in a relevant field, willingness and ability to develop strong research relationships with industries and/or government, a publication record of high-quality and high-impact research, and commitment to teaching excellence. Candidates with strong track record of securing external funding, demonstrable ability to work in an interdisciplinary environment, and experience in supervising students at all academic levels are preferred.

Please go to <http://www4.uwm.edu/ceas/employment/> for a full description. Screening begins on **September 1, 2011** and will continue until the position is filled.

EO/AA Employer



LEHIGH
UNIVERSITY.

FACULTY POSITION

Materials for Energy Related Applications
Department of Materials Science & Engineering

Lehigh University seeks to fill a tenure-track position at the Assistant/ Associate Professor level in Materials Science and Engineering. The department is searching for an outstanding individual who can establish a high quality research program and related facilities in an area of materials that is integral to energy related applications. Issues related to energy supply, economies, and consumption have been identified as a 'grand challenge area' in Lehigh's strategic plan, and this position is a part of a university-wide hiring plan spanning these topics.

A PhD degree in Materials Science and Engineering or a related field is required, as well as demonstrated ability in teaching and research. The successful candidate will be responsible for teaching undergraduate and graduate courses in the Materials Science and Engineering curriculum. A strong desire to perform interdisciplinary research and a willingness to collaborate across departmental boundaries is essential, with likely synergies to be found in the Center for Advanced Materials and Nanotechnology, the Energy Research Center, the ATLLS Center (Advanced Technology for Large Structural Systems), the International Materials Institute for New Functionality in Glasses, and the Center for Optical Technologies.

Please submit a CV by **September 15, 2011** that includes a research statement describing a minimum of two externally fundable research programs (3-6 pages), a description of teaching philosophy at the undergraduate and graduate levels (1-2 pages), and contact information for at least three references to Sharon Coe, Lehigh University, 5 E. Packer Ave., Bethlehem, PA 18015-3195.

Lehigh is committed to recruiting, retaining and tenuring women and members of minority groups.

PENNSTATE



Assistant/Associate Professor Opening in Transmission Electron Microscopy of Materials

The Department of Materials Science and Engineering at The Pennsylvania State University has an opening for a tenure-track faculty member with expertise in transmission electron microscopy and related materials characterization techniques. Appointment at the Assistant or Associate Professor level is preferred.

Penn State has highly ranked graduate and undergraduate programs in materials science and engineering with 164 graduate students and 160 undergraduates.

The department has 30 faculty members with exceptional research programs on electronic and photonic materials, metals, ceramics, polymers, nanomaterials, biomaterials, energy conversion materials, and computational materials science. The Materials Research Institute, Nanofabrication Laboratory and the Materials Characterization Laboratory house state-of-the-art facilities for characterization, synthesis, nanofabrication, and computation, which will be in the new \$230 million Millennium Science Complex housed on Penn State's central campus.

The successful candidate will be expected to establish a funded, independent research program as well as collaborate with other researchers at Penn State. Opportunities exist to teach core courses in the undergraduate program and graduate courses on topics related to transmission electron microscopy and other analytical techniques. The search committee will evaluate applications as received and will continue to do so until the position is filled. Applicants should submit 1) a curriculum vitae, 2) up to three pages describing research interests, 3) a one-page teaching statement, and 4) a list of at least three references with contact information. Applications should be submitted electronically to the Department of Materials Science and Engineering at search@matse.psu.edu.

Penn State is committed to affirmative action, equal opportunity and the diversity of its workforce.

PENN STATE *Making Life Better*



FRONTIER INSTITUTE
OF SCIENCE AND TECHNOLOGY
前沿科学技术研究院

FIST

CENTER DIRECTORSHIPS/FACULTY POSITIONS/ POSTDOCTORAL RESEARCH FELLOWS

Frontier Institute of Science and Technology (FIST)
Xi'an Jiaotong University (XJTU)

FIST is a large selective investment by XJTU in an effort to establish a world-class, multi-disciplinary research institute. To achieve this goal, FIST is setting up 10 research centers of excellence in Physics, Chemistry, Bio-Science/Life-Science/Basic-Medical-Science, and Materials Science, and adopts a new management system similar to that of most U.S. universities. Six out of the ten planned centers have been established recently, and FIST is now recruiting the remaining four Center Directors (either full-time or honorary). In addition, FIST invites applications to fill its multiple, full-time tenure-track faculty positions at all levels (from lab director to group leader), as well as postdoctoral positions. See our Chinese ad for details at <http://fist.xjtu.edu.cn/show.php?id=28>.

An eligible candidate for the Center Director position should be an internationally renowned scientist and established leader in his/her field, with the ability and will to build his/her center into an internationally recognized center of excellence. Successful candidates will be provided with a sizable start-up package to establish a research center, together with a salary (500k-800k RMB annually for full-time directors) or an honorarium commensurate with the working days (for honorary directors). See our Chinese ad for details at <http://fist.xjtu.edu.cn/show.php?id=28>.

In addition to the Center Director positions, FIST also invites applications in the above-mentioned areas to fill its full-time, tenure-track faculty positions at all levels, from lab director to group leader. Applications for postdoctoral positions are also welcome. An eligible faculty candidate should have a track-record for excellence in research and the potential to lead a lab or a group to success. Successful candidates will be provided with a competitive start-up package including an annual salary of 100k-500k RMB, 15-200m² lab space, and 100k-2 million RMB start-up fund, together with many other benefits. Position level and start-up package will vary with the candidate's qualification. See our Chinese ad for details at <http://fist.xjtu.edu.cn/show.php?id=28>.

Interested individuals should set up their free ResearcherID webpage on <http://www.researcherid.com/>. Please send your ResearcherID citation information along with a cover letter, CV, and a list of 10 representative publications to Dr. Xiangli Meng, Frontier Institute of Science and Technology (FIST), Xi'an Jiaotong University, 1 West building, 99 Yanxiang Road, Yanta District, Xi'an, Shaanxi Province, P.R.China, 710054; Tel./Fax: +86 29 83395131; email: fist@mail.xjtu.edu.cn. Valid through **December 31, 2011**.

XJTU is an AA / EOE employer.



Faculty Positions

School of Materials Science and Engineering Gwangju Institute of Science and Technology (GIST)

The School of Materials Science and Engineering invites applications for faculty positions in all levels starting from February or August 2012. Applications from all areas of Materials Science and Engineering, including inorganic and organic materials, will be considered. Especially, the areas of TEM and Bio-materials research are strongly encouraged for the faculty position in 2012. A PhD degree in Materials Science, Chemistry, Physics, Chemical Engineering, or an interdisciplinary area is required.

The successful candidates must have an outstanding research record and show promise of teaching effectively in English at the graduate level. Information on the GIST and the School of Materials Science and Engineering can be found at <http://www.gist.ac.kr>. There is no deadline for receipt of application materials, which are reviewed twice every year.

In order to apply for a faculty position, please send application forms (statement of research plan, CV, and publication list) to GIST by uploading to <http://its.gist.ac.kr/faculty>.

Three letters of recommendation must also be arranged to be sent directly to the dean of school.

Prof. Beong-Ki Cho
School of Materials Science and Engineering
Gwangju Institute of Science and Technology
261 cheomdan-gwagiro, Buk-gu
Gwangju 500-712
Republic of Korea

Foreigners and women scholars, especially, are welcome to apply for the positions. Korean citizenship is not required.

MASDAR INSTITUTE
OF SCIENCE AND TECHNOLOGY



معهد مصدر
للعلوم والتكنولوجيا

FACULTY POSITIONS Full Professors, Associate Professors, and Assistant Professors

Materials Science and Engineering

Job Code: MSE-F012011

Masdar Institute of Science and Technology, located in Abu Dhabi, United Arab Emirates, is a private, not-for-profit, independent, graduate-level, research-driven institute developed with the support and cooperation of Massachusetts Institute of Technology (MIT). The goal of the Institute is to develop, over a period of years, indigenous R&D capacity in Abu Dhabi, addressing issues of importance to the region in critical areas such as: renewable energy, sustainability, environment, water resources and microelectronics. The Institute offers graduate degree programs (MSc and PhD) in science and engineering disciplines with a focus on advanced energy and sustainable technologies (see <http://www.masdar.ac.ae/> and <http://web.mit.edu/mit-tdp/index.html>).

Job Responsibilities:

The successful candidate, with a PhD degree in Science or Engineering, is expected to have a broad background and expertise in material science with particular emphasis on computational materials science.

Successful applicants are expected to build a research program that contributes to Masdar Institute's existing strengths in sustainability and renewable energy while enhancing strategic areas targeted for growth, such as materials for micro- and nano-electronics.

Applicants should hold a PhD degree in materials science or a related field with a solid background in general materials science, computational methods, and materials modeling. A demonstrated commitment

to excellence in teaching and research is essential, as are excellent written and oral communication skills. Masdar Institute is committed to establishing strong, world-class research in materials, structures, and devices for a wide range of applications including renewable energy, sensors, LEDs, advanced organic-inorganic devices, micro- and nano-electronics. Preference will therefore be given to outstanding candidates with a demonstrated expertise and a strong record of published research in one or more of these areas.

Application Submittal Information:

Massachusetts Institute of Technology is assisting Masdar Institute in the search. Initial screening of applications will begin immediately and the positions will remain open until filled.

Application materials should include:

- applicant name and contact information,
- a curriculum vitae,
- statements of research and teaching interests,
- an application letter describing the applicant's current position and how his/her experience matches the position requirements,
- and e-mail contact information for at least three references.

Materials must be submitted electronically to masdar-faculty-applic@mit.edu specifying the **Program Code MSE-F012011** and Program of Interest in the subject line.