



Universität Stuttgart

The Institute of Materials Science at the Department of Chemistry at the University of Stuttgart invites applications for two full professorships:

Professorship (W3) of Chemical Materials Synthesis

Applicants are expected to teach in the entire area of Materials Synthesis at the undergraduate and graduate levels of the B.Sc./M.Sc. program "Materials Science", as well as other science and engineering courses at the University of Stuttgart. The successful candidate should complement and extend current faculty research activities in the field of Materials Science at the University and at the affiliated research institutes in Stuttgart. The Chemistry Department has a research focus on Materials and Functional Molecules, and the University is committed to research on New Materials. Candidates should have a strong record of excellence in research and success in obtaining external funding. Preferred research programs may include, but are not limited to, ceramic (hybrid-) materials and composites, high temperature-resistant ceramics, materials for energy applications but also self-organization or (bio-) mineralization. The integration of molecular and/or nanoscopic components into functional, macroscopic devices and structural materials (microstructural design) is desirable.

Professorship (W3) of Materials Physics

Applicants are expected to teach in the entire area of Materials Physics at the undergraduate and graduate levels of the B.Sc./M.Sc. program "Materials Science", as well as other science and engineering courses at the University of Stuttgart. The successful candidate should complement and extend current faculty research activities in the field of Materials Science at the University and at the affiliated research institutes in Stuttgart. The Chemistry Department has a research focus on Materials and Functional Molecules, and the University is committed to research on New Materials. Candidates should have a strong record of excellence in research and success in obtaining external funding. Preferred research programs may include, but are not limited to the area of organic and inorganic materials for energy conversion and energy storage, of organic electronics, of functional nanomaterials and/or computer based material science.

The requirements for employment listed in § 47 and § 50 Baden-Württemberg university law apply.

Please submit your application to Prof. Dr. H.-J. Werner, Dekan der Fakultät Chemie, Universität Stuttgart, Pfaffenwaldring 55, 70569 Stuttgart, Germany. To ensure full consideration of your application, all documents (CV, certificates, short presentation of the scientific and teaching career, structured list of publications with up to three reprints, track record of research grants and a short statement on current and future research) should be received by **December 6, 2011**.

The University of Stuttgart has established a Dual Career Program to offer assistance to partners of those moving to Stuttgart. For more information please visit the web-page under: www.uni-stuttgart.de/dual-career/

The University of Stuttgart is an equal opportunity employer. Applications of women are strongly encouraged. Severely challenged persons will be given preference in case of equal qualifications.



FACULTY POSITIONS

Electrochemical Energy Science and Engineering

The Fulton Schools of Engineering at Arizona State University (ASU) seeks applicants for a tenure-track or tenured faculty position in the area of **Electrochemical Energy Science and Engineering** in the School for Engineering of Matter, Transport and Energy. Areas of expertise that are of specific interest include but are not limited to, analytical electrochemistry focused on energy, membrane science for electrochemical storage and conversion, and polymer science focused on electrochemical energy for applications such as fuel cells, batteries, solar energy conversion, and other electrochemical energy storage and conversion applications.

The successful candidate will hold an earned PhD degree, or equivalent in Materials Science and Engineering, Chemical Engineering, Mechanical Engineering, Chemistry, or Physics. Appointments will be at the assistant, associate, or full professor rank commensurate with the candidate's experience and accomplishments, beginning August 2012. Faculty members are expected to teach undergraduate and graduate courses, and initiate and sustain a vigorous graduate research program. To apply, applicants must provide a curriculum vita that includes their teaching experience and interests, a list of publications, and a synopsis of a proposed program of research. Candidates for tenure-track positions must include the names and contact information of three references. Candidates for tenured positions must have achieved national and international recognition for their scholarship and must include the names and contact information of five references.

Required qualifications also include demonstrated evidence of research capability and commitment to teaching excellence as appropriate to the candidate's rank. Review of applications will begin **November 1, 2011**; if not filled, reviews will occur bi-weekly until the search is closed. To apply, please submit a current CV, a statement describing your research and teaching interests and a list of contact information for references to electrochemical.faculty@asu.edu.

Arizona State University is an equal opportunity/affirmative action employer. Women and minorities are encouraged to apply. See ASU's complete non-discrimination statement at <https://www.asu.edu/titleIX>.



California State University Northridge

ASSISTANT PROFESSOR Experimental Physics

The Department of Physics and Astronomy at California State University Northridge (CSUN) invites applications for a tenure-track position in experimental physics and materials science. The appointment is expected to begin in the Fall 2012 semester. Preference will be given to candidates in the fields of biophysics, energy conversion and storage, photonics, and plasmonics, although exceptional candidates in other fields of experimental condensed matter physics and materials science will also be considered.

Applicants should have a PhD degree, preferably with postdoctoral experience in Physics or a closely related field, and a clear record of research accomplishments. In addition to their research, candidates should have a strong interest and ability to teach undergraduate and graduate courses in physics, and demonstrate a commitment to working with an ethnically and culturally diverse student population. We seek candidates who can establish and maintain a vigorous independent research program, with potential for external funding. The campus is located in a suburb of Los Angeles, in close proximity to other universities and major research centers.

Applicants should submit a (1) cover letter, (2) curriculum vitae, (3) summary of research and teaching interests, and (4) arrange to have three letters of recommendation sent to: **Chair, Experimental Physics Search Committee, Department of Physics and Astronomy, California State University Northridge, Northridge, CA 91330-8268**. For full consideration, completed applications should be received by **January 16, 2012**. Review of applications will continue until the position is filled. Filling the position is subject to budgetary considerations. At time of appointment, the successful candidate, if not a U.S. citizen, must have authorization from the Bureau of Citizenship and Immigration Services to work in the United States.

California State University Northridge is an Equal Opportunity/Affirmative Action employer.



The National Renewable Energy Laboratory (NREL), located in beautiful Golden, Colorado, is a leader in the U.S. Department of Energy's effort to secure an energy future for the nation that is environmentally and economically sustainable.

Scientist III

Secondary Ion Mass Spectrometry (SIMS)
Specialist 2165BR

This position requires experience in dynamic secondary ion mass spectrometry (SIMS) and/or static-SIMS of semiconductor materials and devices. The successful candidate will utilize dynamic and static SIMS tools to help solve complex material and device problems in order to advance new and existing photovoltaic technologies. This includes, but is not limited to, analysis of CdTe, CIGS, III-V, Si, amorphous-Si, and organic PV materials and devices. Details of our capabilities can be viewed at www.nrel.gov/pv/measurements.

Relevant PhD or equivalent relevant education/experience. Lesser degrees with additional years of experience will be considered. While this specific opportunity is targeting a scientist who has completed a recent post-doc position, more senior applicants will also be considered.

NREL's policy is to provide equal employment opportunities to all qualified persons without regard to race, age, color, sex, religion, national origin, marital or veteran status, or any other legally protected status. Pre-employment drug testing required. **View full description at: www.nrel.gov/employment** and search for Job 2165BR or contact: Marlo.Hughen@NREL.gov



Senior Positions

**Ningbo Institute of Material Technology and Engineering (NIMTE)
Chinese Academy of Sciences (CAS)**

Ningbo Institute of Material Technology and Engineering (NIMTE) is located in Ningbo, a prosperous port city in Zhejiang Province enjoying both rich cultural heritages and a highly developed economy in China, and is the first institute of CAS in Zhejiang Province. NIMTE was founded in 2006 with the core value of "Facilitating the application of scientific research achievements, and delivering innovative solutions for industry and society," and with the vision to become a unique world-class research institute in materials science, technology, and engineering.

NIMTE focuses on the development of new materials, new energy, and advanced manufacturing techniques. The research area includes, but is not limited to: magnetic materials, polymers, surface engineering, functional materials and nano devices, photovoltaic solar cells, solar hydrogen production and storage, biological hydrogen manufacturing, membrane growth and core equipment, organo-polymer solar cells, energy storage technologies, intelligent devices and systems, automation and advanced control technology, composites processing and manufacturing equipment, software and hardware for computer vision, advanced drive and precise machinery, and virtual manufacturing. Further information can be found at <http://www.nimte.ac.cn>.

NIMTE invites outstanding applications in emerging fields for senior positions at all ranks, including the National "Qianren" and Youth "Qianren" candidate, the "Hundred Talents Program" of CAS, the "Qianren" of Zhejiang and Ningbo, and the Flagship Leader, Team Leader, and Young Leader of NIMTE. Appointments can be at the Chief Professor/Engineer, associate, or full professor rank commensurate with the candidate's experiences and accomplishments.

NIMTE offers generous and competitive start-up packages, including startup funds of 0.5-10 million RMB, house purchasing privileges and subsidies under the Talent Recruitment Programs, additional bonuses based on individual performance, and effective profit distribution.

Applications and nominations enclosing an updated CV should be sent to:

Dr. Ruili Zhang, Department of Human Resources
Ningbo Institute of Material Technology and Engineering
519 Zhuangshi Road, Zhenghai, Ningbo
Zhejiang, P. R. China 315201
Tel: (86) 574-87911123
E-mail: rlzhang@nimte.ac.cn



Faculty Positions in Materials Science and Engineering

The Department of Materials Science and Engineering at the University of Pennsylvania (www.mse.seas.upenn.edu) invites applications for a faculty position in the area of theory and computational modeling of materials. A tenured appointment at the Associate or Full Professor level is strongly preferred, although extraordinary junior candidates may apply at the Assistant Professor level.

In addition, we encourage appropriate candidates to apply to the School of Engineering and Applied Science's Penn Nano Cluster-Hiring Initiative (www.seas.upenn.edu/nano) in anticipation of the opening of the \$100M Krishna P. Singh Center for Nanotechnology.

Successful candidates for these positions must be committed to excellence in undergraduate and graduate teaching and conduct leading edge research programs benefiting from Penn's strong interdisciplinary tradition and multi-school research institutes. These include two NSF-funded centers, a Materials Research Science and Engineering Center and a Nanoscale Science and Engineering Center, the Nanotechnology Institute and the Institute of Medicine and Engineering.

Applications (CV, statement of research and teaching interests, and names of three references) should be submitted online at www.mse.seas.upenn.edu/jobs. Applications submitted by mail will not be accepted.

Applications will be evaluated on a rolling basis. Final deadline for submission: December 15, 2011.

The University of Pennsylvania is an equal opportunity employer. Minorities, women, individuals with disabilities and veterans are encouraged to apply.



FACULTY POSITION

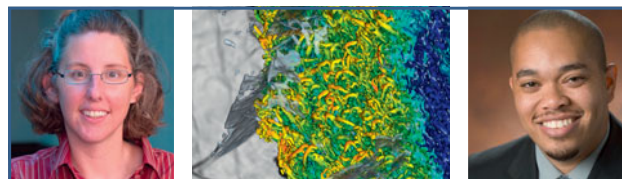
Department of Mechanical and Aerospace Engineering

The Department of Mechanical and Aerospace Engineering at Rutgers University (<http://mech.rutgers.edu>) invites applications and nominations for a tenure-track/tenured faculty position at the Assistant, Associate, or Full Professor level starting as soon as January 2012. Candidates with expertise in emerging areas of **advanced manufacturing systems, nanomicroscale manufacturing, pharmaceutical manufacturing, advanced/alternative energy systems**, and sustainable systems are highly encouraged to apply. Candidates should demonstrate a capacity to develop a nationally-recognized, externally-funded, scholarly research program. Excellence in teaching in both our undergraduate and graduate programs is also expected.

The candidate must hold an earned doctorate in Engineering or a closely related field. We also encourage strong candidates in all the relevant disciplines of Mechanical and Aerospace Engineering to apply. Candidates are expected to develop strong interdisciplinary collaborations, in particular within the Rutgers Institute of Advanced Materials, Devices, and Nanotechnology (IAMDN, <http://iamdn.rutgers.edu>) or/and the National Science Foundation Engineering Research Center for Structured Organic Particle Systems (ERC-SOPS, <http://ercforsops.org>).

Please send your application via mail to Search Committee Chair, Mechanical and Aerospace Engineering Department, Rutgers University, Piscataway, NJ 08854, USA, or email to maefsearch@jove.rutgers.edu. Applications should include a detailed resume including the name and contact information of at least three references, and a statement of research and teaching interests. Applications will be reviewed until the position is filled.

Rutgers is an affirmative action/equal opportunity employer.



DEPARTMENT OF ENERGY

Computational Science Graduate Fellowship

PROGRAM HIGHLIGHTS


- \$36,000 yearly stipend
- Payment of all tuition and fees
- \$5,000 academic allowance in first year
- \$1,000 academic allowance each renewed year
- 12-week research practicum at a DOE Laboratory
- Yearly conferences
- Career, professional and leadership development
- Renewable up to four years



APPLICATIONS DUE JANUARY 10, 2012

For more information, visit: www.krellinst.org/csgf

Sponsored by the U.S. Department of Energy Office of Science and NNSA Programs. Administered for USDOE by the Krell Institute under contract DE-FG02-97ER25308. This is an equal opportunity program that is open to all qualified persons without regard to race, sex, creed, age, physical disability or national origin.



The Krell Institute
1609 Golden Aspen Drive, Suite 101
Ames, IA 50010
515.956.3696
csgf@krellinst.org
www.krellinst.org/csgf




FACULTY POSITIONS

Department of Materials Science and Engineering

The University of North Texas (UNT; www.unt.edu) seeks applicants to fill two open rank (Assistant/Associate/Full Professor) and two Assistant/Associate Professors in the Department of Materials Science and Engineering (MTSE). Tenured appointments are possible. The positions will cover a broad area of structural and energy-related materials. Candidates will develop synergies to further strengthen the existing core emphases in: 1) Structural aerospace, automotive, and multifunctional composite materials; 2) Structural biomaterials (tissue scaffolds, load-bearing/hard tissue replacement implants, bio-devices); and 3) Structure-properties relationships of materials for energy generation (failure mechanisms of battery electrodes, role of structural defects on electrical and optical properties inorganic solar cell and LED materials), and alternative energy conservation systems (lightweight alloys, advanced tribological materials).

The MTSE department at UNT has grown significantly to its present size of fourteen faculty members. The proposed faculty positions are a part of the recently approved strategic plan of the MTSE department to create excellence and leadership in the area of structural materials. UNT has excellent materials processing, testing, and characterization facilities as part of Center for Advanced Research and Technology (CART; <http://research.unt.edu/cart/>). CART and two NSF/UUCRCs are housed in the MTSE Department (www.mtse.unt.edu).

All positions require an earned doctorate in Materials Science and Engineering, or a related field, and at least one of the degrees of each applicant must be in Materials Science and Engineering. Candidates must be capable of teaching a range of fundamental materials science and engineering courses. Consideration for appointment as an Assistant Professor will be given to applicants who have demonstrated a strong commitment to teaching and research, and they must exhibit potential to develop and sustain a cutting-edge research program with external funding. Consideration for appointment as an Associate/Full Professor will only be given to those applicants who have a potential for and/or proven track record in academia, including teaching experience, and externally funded research grants. Candidates with expertise in experimental materials science are sought, however, candidates with a combined experimental and computational research programs will also be considered. Prior teaching and/or research experience is preferred.

All applicants must submit an online application to <http://facultyjobs.unt.edu>. Screening of applications will begin on November 1, 2011 and will continue until the search is closed. For additional information and questions, please contact co-chairs of the search committee Narendra Dahotre (940-565-2031, Narendra.Dahotre@unt.edu) or Thomas Scharf (940-891-6837).

The University of North Texas is an AA/ADA/EOE committed to diversity in its educational programs.



THE UNIVERSITY OF
TEXAS
AT AUSTIN

WHAT STARTS HERE CHANGES THE WORLD

FACULTY RECRUITMENT Materials Engineering

The Cockrell School of Engineering at the University of Texas at Austin seeks outstanding applicants for a tenure-track faculty position at the Assistant Professor level in the materials engineering area. The candidate should have a PhD degree in chemical, materials, or mechanical engineering, or a related field with an outstanding record of research accomplishments in the materials science and engineering area. Applications from women and minority candidates are especially encouraged. The successful candidate will be housed in the Department of Chemical Engineering or Mechanical Engineering, and will be expected to interact closely with the Texas Materials Institute and the Materials Science and Engineering Graduate Program. The candidate will also be expected to teach undergraduate and graduate courses, develop a strong sponsored research program, and be involved in service to the university and the profession.

Interested applicants should submit the following by email to Director, Texas Materials Institute, The University of Texas at Austin, Austin, TX 78712, at mse-faculty-search@austin.utexas.edu as early as possible: (1) cover letter, (2) curriculum vitae, (3) statement of research and teaching interests, and (4) list of at least three references. Evaluation of applications will begin **November 15, 2011**, but applications received by December 15, 2011 will receive full consideration. The successful candidate will be required to complete an Employment Eligibility Verification form and provide documents to verify eligibility to work in the U.S.

*The University of Texas is an Equal Opportunity/Affirmative Action Employer.
A security sensitive background check will be conducted on the applicant selected.*

FACULTY POSITION

Experimental Condensed Matter/Materials Physics

The Department of Physics in the School of Arts and Sciences announces a tenure-track faculty opening at the assistant professor level in Experimental Condensed Matter/Materials (CMM) Physics. This hire is designed to enhance the activities of Washington University's cross-disciplinary Center for Materials Innovation (CMI), as well as those of the broader developing materials focus across schools.

We are seeking candidates whose research achievements, relative to their experience, are extraordinary and who exhibit a strong aptitude for teaching and mentoring students at the undergraduate and graduate levels. The hire must have a PhD degree in a relevant field. The duties will include, but are not limited to, teaching and advising students, conducting and publishing original research, and participating in service to both the department and the university. The appointment will begin Fall 2012. Information on our department and the CMI can be found at <http://www.physics.wustl.edu>.

Applications should consist of the following: Cover letter, current resume including publication record, statement of research interests and plans (up to 5 pages), statement of teaching interests and approach (up to 3 pages), and names and complete contact information (including email addresses) of three referees. Application materials must be submitted electronically by email as a single file in editable (i.e., not password protected) PDF format to CMMResearch@wuphys.wustl.edu. For full consideration, applications should be submitted on or before **November 15, 2011**.

Washington University is an equal opportunity/equal access affirmative action institution. Women and minorities are encouraged to apply.



**RWTHAACHEN
UNIVERSITY**

Thinking for the Future.

JUNIORPROFESSOR (W1)

in Materials Modeling

- Hierarchies at the Atomic Scale -

**FACULTY OF GEORESOURCES AND
MATERIALS ENGINEERING**

We are seeking qualified applicants for teaching and research in the area of modeling of the structural hierarchies of materials at the atomic scale. The starting date is March 1, 2012. The successful candidate will be affiliated to the Chair of Glass and Ceramic Composites. It is a tenure track position. Depending on a positive evaluation, the position may be converted into a permanent professorship.

You should have a completed university degree and a special aptitude for scientific work which is generally verified by means of an outstanding doctorate. Ability in and commitment to teaching are essential. German is not necessary to begin but will be expected as a teaching language within the first 5 years.

Recognized expertise in the areas of non-metallic inorganic, metallic, or polymeric materials, both non-crystalline and crystalline, is particularly welcome. An overarching approach to materials modeling is highly appreciated.

The application should include supporting documents regarding success in teaching.

Please send a cover letter stating research aims and a CV to: An den Dekan der Fakultät für Georessourcen und Materialtechnik der RWTH Aachen, Herrn Univ.-Prof. Dr.-Ing. Thomas Pretz, 52056 Aachen, Germany. The deadline for applications is December 1, 2011.

This position is also available as part-time employment per request.

RWTH Aachen University is certified as a family-friendly university and offers a dual career program for partner hiring. We particularly welcome and encourage applications from women, disabled people and ethnic minority groups, recognizing they are underrepresented across RWTH Aachen University. The principles of fair and open competition apply and appointments will be made on merit.



FACULTY POSITION

Department of Electrical Engineering
Stanford University

The Department of Electrical Engineering at Stanford University (<http://ee.stanford.edu/>) invites applications for a tenure-track faculty appointment at the junior level (Assistant or untenured Associate Professor) in the broadly defined field of electrical and computer engineering. Priority will be given to the overall originality and promise of the candidate's work as opposed to any specific area of specialization.

To see the detailed posting and to apply online, please go to <http://ee.stanford.edu/jobs.php>. Applications will be accepted until **December 21, 2011**.

Stanford University is an equal opportunity employer and is committed to increasing the diversity of its faculty. It welcomes nominations of and applications from women and minority groups, as well as others who would bring additional dimensions to the university's research, teaching and clinical missions.



Faculty Position

Department of Polymer
and Fiber Engineering

The Department of Polymer and Fiber Engineering at Auburn University is seeking a candidate for a tenure-track faculty position starting August 15, 2012. Appointment will be at the assistant or associate professor level. Interested candidates should submit a curriculum vitae, names and contact information of three references, a statement of research interests and a statement of teaching interests by email to Professor Yasser Gowayed, Search Committee Chair, gowayed@auburn.edu. Responses received by **January 15, 2012** will be given priority. For more information, see the full announcement at www.eng.auburn.edu/about/employment/coe-job-openings.html.

Auburn University is an Affirmative Action/Equal Opportunity employer.



Senior Faculty Position in Energy & Sustainability

Department of Chemical
and Biomolecular Engineering
University of Illinois at Urbana-Champaign

The Department of Chemical and Biomolecular Engineering at the University of Illinois at Urbana-Champaign invites applications for a full-time Associate or Full Professor whose research is in the area of Energy & Sustainability. This position is part of the multi-year Strategic Excellence Hiring Program at Illinois. The successful candidate is expected to sustain a strong and imaginative research program, and to teach undergraduate and graduate courses. An earned PhD degree with a distinguished academic record is required. Candidates should have demonstrated evidence of leadership in the field at the national and international level, respectively.

Applicants must submit a cover letter, curriculum vitae, and names and contact information of three references. Submission of the application is via the Web at <http://jobs.illinois.edu>. Questions can be addressed to the Chemical & Biomolecular Engineering Department Office, 217-244-9214, chbe_apply@scs.uiuc.edu.

The target starting date is August 16, 2012. For full consideration, applications must be received by **December 1, 2011**. Interviews may be conducted during the application period, but all applications received by December 1 will receive full consideration. Salary and rank will be commensurate with qualifications.

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.inclusivillinois.illinois.edu).

Tenure Track Professor Civil and Environmental Engineering - #16021

Cornell University, located in Ithaca, New York, is an inclusive, dynamic, and innovative Ivy League university and New York's land-grant institution. Its staff, faculty, and students impart an uncommon sense of larger purpose and contribute creative ideas and best practices to further the university's mission of teaching, research, and outreach.

At Cornell, structural engineering is conceived of broadly, to encompass structures across scales where well understood physical laws apply. We are currently seeking a person in stochastic mechanics, with the ability to develop and use modern computational tools to solve real problems and to advance both the understanding and design of complex structural systems across a range of materials.

The successful candidate for this position is expected to conduct a vigorous funded research program seeking innovative solution methodologies to challenging problems in stochastic mechanics. The candidate will also be expected to rapidly become an effective teacher in both graduate and undergraduate courses in solid and structural mechanics, as well as specialty areas. Candidates must have a Ph.D. in engineering or an allied field within the physical sciences.

Appointment at the rank of Assistant Professor is anticipated, but applications from candidates from all levels are welcomed. Applications will be held in strict confidence.

The School of Civil and Environmental Engineering and the College of Engineering at Cornell embrace diversity and seek candidates who will create a climate that attracts students of all races, nationalities and genders. We strongly encourage women and underrepresented minorities to apply.

Cornell University seeks to meet the needs of dual career couples, has a Dual Career program, and is a member of the Upstate New York Higher Education Recruitment Consortium to assist with dual career searches. To learn more, visit http://www.unyherc.org/home/index.cfm?site_id=671.

To apply: Application materials must be submitted on-line at <https://academicjobsonline.org/ajo/jobs/1046>

Applicants should submit a curriculum vita, a research statement, a teaching statement, an official graduate transcript, one to three publications, and complete contact information for at least three references. Review of applications will begin immediately and continue until the position is filled.



Cornell University

*Cornell University is an affirmative action/
equal opportunity employer and educator*

Faculty Position Department of Applied Physics and Applied Mathematics

The Department of Applied Physics and Applied Mathematics, which includes the Materials Science and Engineering Program, at Columbia University's Fu Foundation School of Engineering and Applied Science in New York City invites applications for tenured or tenure-track faculty positions. One or more appointments at the assistant professor, associate professor, and full professor will be considered.

Columbia Engineering's strategic theme areas are Health, Information, and Sustainability, and the successful candidate should contribute to the advancement of the department in these areas by developing an externally funded research program, being a thought leader in the profession, contributing to the undergraduate and graduate educational mission of the Department, and providing active service to professional societies. The successful candidate is expected to establish multidisciplinary research and educational collaborations with academic departments and units across Columbia University. The Department is especially interested in qualified candidates who can contribute, through their research, teaching, and/or service, to the diversity and excellence of the academic community.

Applications are specifically sought in any of the areas that fall under the umbrella of applied physics, applied mathematics, and materials science and engineering, with particular emphasis on, but not limited to: computational biology, modeling climate and water, scientific and data-intensive computation, biophysics, materials for energy and for infrastructure remediation, thin film oxides, and optical physics for information systems. Applicants whose work contributes to CyberBioPhysical Systems, where the biological, physical, and digital worlds fuse, are also encouraged to apply.

Candidates must have a PhD degree or its professional equivalent by the starting date of the appointment. Applicants for this position at the Assistant Professor and Associate Professors without tenure must have the potential to do pioneering research and to teach effectively. Applicants for this position at the tenured level (Associate or Full Professor) must have a demonstrated record of outstanding research accomplishments, excellent teaching credentials and established leadership in the field.

Candidates should apply online at academicjobs.columbia.edu/applicants/Central?quickFind=55363 and should submit electronically the following: curriculum-vitae including a publication list, a description of research accomplishments, a statement of research/teaching interests and plans, contact information for three people who can provide letters of recommendation, and up to three pre/reprints of scholarly work. The position will close no sooner than **January 15, 2012**, and will remain open until filled. Applicants can consult <http://www.apam.columbia.edu> for more information about the department.

Columbia is an affirmative action/equal opportunity employer with a strong commitment to the quality of faculty life.



FACULTY POSITIONS Computational Materials Science



The Fulton Schools of Engineering at Arizona State University (ASU) seek applicants for a tenure-track/tenured faculty position in the area of computational materials science. Areas of interest include, but are not limited to, **integrated multi-scale modeling and simulation strategies which share information across scales that can span atomistic to continuum, and can be coupled with experiments on microstructural evolution over time (4D Materials Science)**. Other areas of interest include **image segmentation methodologies, data mining, and query tools**. Appointments will be at the assistant, associate, or full professor rank commensurate with the candidate's experience and accomplishments, beginning August 2012. Faculty members are expected to develop an internationally recognized and externally funded research program, teach graduate and undergraduate courses, advise students, and undertake service activities. The originality and promise of each candidate's work are higher priorities than the specific sub-area of research.

Required qualifications include an earned doctorate in materials science and engineering or related field, demonstrated evidence of research capability, and commitment to teaching excellence as appropriate to the candidate's rank. Review of applications will begin November 1, 2011; if not filled, reviews will occur biweekly until the search is closed. To apply, please submit a current CV, a statement describing your research and teaching interests, and a list of and contact information for three references to comp.materials.faculty@asu.edu. Current information regarding this position is also available at <http://engineering.asu.edu/hiring/>.

Arizona State University is an equal opportunity/affirmative action employer. Women and minorities are encouraged to apply. See ASU's complete non-discrimination statement at <https://www.asu.edu/titleIX>.

TENURE-TRACK ASSOCIATE PROFESSOR IN ENERGY-CONVERSION MATERIALS

Department of Organic Polymeric Materials

Tokyo Institute of Technology (Tokyo Tech) invites applicants for a Tenure-Track Associate Professor position in **Energy-conversion Materials in the Department of Organic Polymeric Materials**. Specific areas of interest include:

**Nanotechnology | Meta-materials | Photoelectric conversion
Thermoelectric conversion | Piezoelectric conversion
Electromagnetic conversion | Organic semiconductor**

Tokyo Tech has always been keen to attract top-quality young researchers from all over the world. For this purpose, Tokyo Tech has been implementing a Tenure-track system since 2006. The main objectives of this system are to recruit and retain outstanding scientists by offering them a clear career path. In the longer term, successful tenure-track faculty members will progress to key positions within Tokyo Tech through a fair and transparent evaluation process. They will be provided with research funds and an independent research environment, and also be expected to pursue and supervise scientific research as a principal investigator and provide academic education in the graduate or undergraduate school.

The department is seeking candidates who are committed to high standards and professionalism in their areas of expertise. The candidate should have a PhD degree in natural science or engineering and should have English-language proficiency. Japanese proficiency is not required to apply, however, it will be necessary on a daily basis after employment.

To apply for the position, please visit our website at http://www.tenure-track.titech.ac.jp/opening_e.html.

Deadline Date for Online Entry: **November 16, 2011**

Deadline for Submission of Application Documents: **November 18, 2011**

Office of Tenure-Track System, Tokyo Institute of Technology
Phone: +81-3-5734-7627, E-mail: tt.apply@jim.titech.ac.jp



Yale

FACULTY POSITION

Mechanical Engineering and Materials Science

Yale University's Department of Mechanical Engineering and Materials Science invites applications from qualified individuals for a faculty position with a specialization in materials science (hard or soft matter). Subfields of interest include fabrication and/or characterization of novel materials/nanomaterials and devices based on such materials and other novel research directions that fit into the above-mentioned broad area. Priority will be given to an appointment at the full professor level, but a junior faculty appointment could also be considered. Applications from experimental, computational, and theoretical candidates are welcome.

All candidates should be strongly committed to both teaching and research and should be open to collaborative research. Candidates should have distinguished records of research accomplishments and should be willing and able to take the lead in the shaping and expansion of Yale's programs in their respective area. Junior applicants should include a cover letter, a curriculum vitae, a description of research and teaching interests, and the names and addresses of three references to be uploaded online at <https://academicjobsonline.org/ajo/Yale/MEMS>. Senior applicants should upload a cover letter and a curriculum vitae. The review process will begin November 1, 2011 and will continue until the position is filled.

Yale University is an Affirmative Action/Equal Opportunity Employer. Yale values diversity among its students, staff, and faculty and strongly encourages applications from women and underrepresented minorities.



FACULTY OPENING Department of Mechanical Engineering

The Department of Mechanical Engineering at Stanford University (<http://me.stanford.edu/>) invites applications for a tenure-track faculty appointment at the junior level (Assistant or untenured Associate Professor) in the broad area of Biomechanical Engineering. Areas of interest include, but are not limited to, mechanobiology, cell mechanics, transport phenomena in biological systems, bio-inspired design, design and analysis of bio-devices or bioinstrumentation, biomaterials, and modeling of physiological systems. In general, we give higher priority to the overall originality and promise of the candidate's work than to the area of specialization.

An earned doctorate, evidence of the ability to pursue a program of research, and a strong commitment to graduate and undergraduate teaching are required. Successful candidates will be expected to teach courses at the graduate and undergraduate levels and to build and lead a team of graduate students in PhD research.

Applications should include a curriculum vitae with a list of publications, a one-page statement each of research vision and teaching interests, and the names and addresses of five references. Please submit your application online at http://me.stanford.edu/research/open_positions.html. The review of applications began on October 1, 2011. However, applications will be accepted until the position is filled.

Stanford University is an equal opportunity employer and is committed to increasing the diversity of its faculty. It welcomes nominations of and applications from women and members of minority groups, as well as others who would bring additional dimensions to the university's research and teaching missions.



POSTDOCTORAL FELLOWSHIP

Advanced Materials Science/
Terahertz/Millimeter Waves/
Femtosecond Laser Measurements
Kazuo Inamori School of Engineering

Applications are invited for one postdoctoral position at the Kazuo Inamori School of Engineering, Alfred University. Prior research experience in one or more areas such as materials synthesis, electrical/optical measurements, spectroscopy, electron microscopy, and thermal processing is required. Hands-on experience with THz/millimeter waves equipments and femtosecond laser systems is required. The projects offer exciting opportunities for honing new skills with a strong experimental focus encompassing advanced materials synthesis, ultrafast materials modification and characterization, and THz/millimeter wave diagnostics and device development.

We are seeking a highly motivated candidate with an outstanding academic record and publications. The candidate should have a PhD degree in Materials Science, Physics, Applied Physics, Chemistry, Engineering, or related disciplines. An ability to communicate effectively, both orally and in writing, is essential. Experience in education and mentoring is desirable.

Applicants should send their CV, list of publications, contact information of three references, and visa status (if appropriate) to Prof. S. K. Sundaram by electronic mail: sundaram@alfred.edu. Please include "PDF Application" in the subject line.

Alfred University is an Equal Opportunity/Affirmative Action Employer.

 Alfred University



Department of Energy
National Nuclear Security Administration

STEWARDSHIP SCIENCE GRADUATE FELLOWSHIP

Providing outstanding benefits and opportunities to students pursuing a Ph.D. in areas of interest to stewardship science:

- properties of materials under extreme conditions and hydrodynamics
- nuclear science
- high energy density physics

BENEFITS

- \$36,000 yearly stipend
- Payment of all tuition and fees
- \$1,000 yearly academic allowance
- Yearly conferences
- 12-week research practicum
- Renewable up to four years

APPLICATIONS DUE JANUARY 18, 2012
www.krellinst.org/ssgf



This program is open to U.S. citizens and permanent resident aliens studying at a U.S. university who are senior undergraduates or are in their first or second year of graduate study. This is an equal opportunity program and is open to all qualified persons without regard to race, sex, creed, age, physical disability or national origin.



The Krell Institute
1609 Golden Aspen Drive,
Suite 101, Ames, IA 50010
515.956.3696
ssgf@krellinst.org
www.krellinst.org/ssgf





**Postdoctoral
Research Associates**
University of Texas at Dallas

The University of Texas at Dallas has two openings for postdoctoral scholars in the Department of Materials Science and Engineering. One position is available for a scholar with Molecular Beam Epitaxy (MBE) experience to pursue research involving MBE growth, characterization, and device fabrication of photovoltaics and advanced nano-devices. The second position is available for surface/interface analysis for graphene related research. Successful candidates will have a PhD degree in Materials Science, Physics, Electrical Engineering, Chemistry, or related fields.

Applicants should email their curriculum vitae, a statement of research interests, and a list of at least three academic or professional references to chris.hinkle@utdallas.edu.

The University of Texas at Dallas is located in suburban Richardson, Texas amidst one of the highest concentrations of telecommunications and high-technology companies in the world.

The University of Texas at Dallas is an Equal Opportunity Affirmative Action employer and strongly encourages applications from candidates who would enhance the diversity of the University.



DIRECTOR

School of Materials Science and Engineering | College of Engineering & Science

Clemson University invites applications and nominations for the position of Director of the School of Materials Science and Engineering. Clemson University is the land grant institution of South Carolina and is located on Lake Hartwell halfway between Atlanta, GA and Charlotte, NC. The School has an enrollment of over 200 total students, sponsored research programs in excess of \$5.8M per year, and active industrial service and continuing education programs.

The Director will be a dynamic, innovative leader and a distinguished scholar who will draw attention to the School's commitment to excellence in teaching, research, and service. He or she will be a proactive partner with materials industry leaders as the School vigorously pursues its service mission, and in the continued pursuit of government and industry funding for research and education. More specifically, the successful candidate will (a) have demonstrated leadership ability, (b) be internationally recognized for funded research in his/her field, (c) have an earned doctorate in a materials related field, and (d) qualifications for appointment as a full professor with tenure.

Guaranteed consideration will be given to applications received by November 1, 2011. Although it is expected that the position will be filled for the start of the 2012-2013 academic year, the search will continue until a suitable candidate is found. Further details about the School are available at <http://mse.clemson.edu>.

Qualified women and minorities are encouraged to apply. Submission materials should include a letter of application briefly highlighting how the above characteristics are met, and a complete CV including list of publications and the names of three references. Send applications to Dr. Stephen Fulger, Search and Screen Committee Chair, Clemson University, 161 Serrine Hall Clemson, SC 29670. **Electronic submissions required** (mse_search@clemson.edu).

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.



Faculty Position
Department of Chemical
and Biomolecular Engineering
University of Illinois Urbana-Champaign

The Department of Chemical & Biomolecular Engineering at the University of Illinois at Urbana-Champaign invites applications for a full-time regular faculty position at the Assistant Professor level in research areas including systems, computation, materials, and energy/sustainability. The successful candidate is expected to develop and sustain a strong and imaginative research program, and to teach undergraduate and graduate courses. An earned PhD degree with a distinguished academic record is required.

Applicants must submit a cover letter, curriculum vitae, plans for their independent research program, and names and contact information of at least three references. Submission of the application is via the Web at <http://jobs.illinois.edu>. Questions can be addressed to the Chemical & Biomolecular Engineering Department Office, 217-244-9214, chbe_apply@scs.uiuc.edu.

The target starting date is August 16, 2012. For full consideration, applications must be received by **December 1, 2011**. Interviews may be conducted during the application period, but all applications received by December 1 will receive full consideration. Salary will be commensurate with qualifications.

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 in Materials Science
& Engineering at Cornell University**

The Department of Materials Science and Engineering at Cornell University is soliciting applications for a tenure track faculty position. Exceptional candidates are sought, particularly those who will dramatically enhance our program in the strategic research area of energy production and storage (e.g., photocatalysis, photovoltaics, thermoelectrics, phononics, batteries, and supercapacitors). More information on Cornell MS&E's strategic research focus is available at: <http://mse.cornell.edu>.

Candidates are expected to currently have or to develop an internationally recognized program of research and teaching in materials science and engineering. Considerable institutional resources are available for the support of the successful applicant's research program and a competitive start-up package can be expected. The successful candidate can expect to benefit from associations with Cornell's many interdisciplinary research centers, facilities, and initiatives, which include a number of national resources. The successful candidate will be expected to excel in the teaching of materials science and engineering and to mentor students at both the undergraduate and graduate levels. Applicants at all levels will be considered for this position.

The Department of Materials Science and Engineering and the College of Engineering at Cornell embrace diversity and seek candidates who will create a climate that attracts students of all races, nationalities and genders. Women and under-represented minorities are strongly encouraged to apply.

Applications including a resume, a statement on teaching and research interests, copies of publications or preprints, and names of several references should be submitted online at:

<https://academicjobsonline.org/ajo/jobs/1069>

Applications will be reviewed starting December 1, 2011 and will be accepted until this position is filled.

<http://mse.cornell.edu>



Cornell University
*Cornell University is an affirmative action/
equal opportunity employer and educator*