

Positions Available



Ruhr University Bochum

The **Ruhr University Bochum** is one of Germany's leading research universities. The University draws its strengths from both the diversity and the proximity of scientific and engineering disciplines on a single, coherent campus. This highly dynamic setting enables students and researchers to work across traditional boundaries of academic subjects and faculties. Host to 32,600 students and 4,700 staff, the Ruhr University is a vital institution in the Ruhr area, which has been selected as European Capital of Culture for the year 2010.

The newly founded Research Department **IS³/HTM** focuses on top-level interdisciplinary materials science projects in the fields of "Integrity of Small Scale Systems", "High-Temperature Materials" and "Small Scale Systems in Harsh Environments". In this Research Department, scientists from mechanical and electrical engineering as well as from physics, geology and chemistry cooperate in international interdisciplinary teams.



The Research Department **IS³/HTM** seeks:

10 excellent scientists

with outstanding research profiles (preferably at post doc level)

Candidates should have the capability to work in cooperation with at least two independent research groups. Suitable candidates will help to set up the new research field and will be able to produce high-class results in a short period of time.

Suitable applicants may apply for one or more of the following research projects:

- **IS1:** MEMS-based systems for the investigation and online surveillance of the integrity of small scale systems
- **IS2:** Mechanical testing of small scale specimens from functional and structural materials at elevated temperatures
- **IS3:** Development of multifunctional microstructured materials (metals, oxides, polymers) for applications in harsh environments (high temperature, mechanical load, corrosive environment)
- **IS4:** High performance thin-film transistors and nano electronic devices based on new semiconducting materials
- **IS5:** Lifetime-critical interactions between mechanical, physical, chemical factors in small scale systems at high temperatures
- **IS6:** Integrity of spin valves for high temperature applications
- **HT1:** Elastic constants of and diffusion processes in single crystal Ni-base super alloys
- **HT2:** High temperature plasticity and microstructural stability in Ni-base super alloys: experiments and modelling
- **HT3:** Diffusion controlled reactions in and at single crystal Ni-based super alloys
- **HT4:** Interaction of dislocations and precipitates during creep

The posts are currently based on two-year fixed term contracts with a salary according to TV-L (max. E 13).

The Ruhr University Bochum seeks to increase the participation of women in areas in which they are currently under represented and therefore explicitly urges women to apply. Disabled persons with equivalent aptitude will be favored.

Please send your application containing a curriculum vitae, list of publications, statement of research interests and track record to **rd-is3-htm@rub.de** preferably within four weeks after publication.

For questions, please contact **Prof. Dr.-Ing. Alfred Ludwig** (Phone: +49 234 32 27492, email: alfred.ludwig@rub.de).

www.ruhr-uni-bochum.de

Positions Available



FACULTY POSITIONS
Department of Materials Science and Engineering
Gwangju Institute of Science and Technology (GIST)

The Department of Materials Science and Engineering invites applications for faculty positions in all levels starting from February or August 2009. Applications from candidates with experience in photonics, semiconductor materials and devices, energy-related materials, and bio-materials are encouraged but all areas of materials science and engineering will also be considered. A PhD degree in Materials Science, Chemistry, Physics, Chemical Engineering, or interdisciplinary subject 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 Department of Materials Science and Engineering may be found at <http://www.gist.ac.kr>. There is no deadline for receipt of application materials which are reviewed four times every year.

A letter of interest, statement of research plan, CV, and publication list should be sent to the department chairman, Prof. Tae-Ho Yoon, via e-mail at thyoon@gist.ac.kr and three recommendation letters must also be arranged to be sent directly to:

Prof. Tae-Ho Yoon
 Department of Materials Science and Engineering
 Gwangju Institute of Science and Technology
 261 Cheomdan-gwagiro (Oryong-dong)
 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.



City University of Hong Kong invites nominations and applications for the following posts. Candidates with applied research achievements will receive very positive consideration. Relevant experience in business and industry will be a definite asset.

Professor/Associate Professor/Assistant Professor
Department of Physics and Materials Science [Ref. A/559/56]

The University aspires to be internationally recognized as a leading university in the Asia-Pacific region through excellence in professional education and applied research. The Department of Physics and Materials Science was formed in 1993 as the first of its kind in Hong Kong, and already excels in several fields.

The Department seeks strong candidates in emerging fields that strengthen and expand its existing areas of focus. Particularly strong candidates are welcome in any field. The University places much emphasis in the areas of Energy, Environment and Biomedical Engineering.

Requirements: A PhD in a closely related discipline with a promising research record and a strong teaching ability. The successful candidates are expected to develop new research directions and courses.

Salary and Conditions of Service
 Remuneration package will be highly competitive, commensurate with qualifications and experience. Initial appointment will be made on a fixed-term gratuity-bearing contract. Fringe benefits include leave, medical and dental schemes, and housing benefits where applicable. (The remuneration package is currently under review.)

Application and Information
 Information concerning the posts and the University is available at <http://www.cityu.edu.hk> or from the Human Resources Office, City University of Hong Kong, Tat Chee Avenue, Kowloon, Hong Kong [Fax : (852) 2788 1154 or (852) 2788 9334/email : hrojib@cityu.edu.hk]. Please send the nomination or application enclosing a current CV with evidence of teaching ability in English, and a concise (up to one page) statement of research interests and teaching philosophy to the Human Resources Office. **Applications will be considered until positions are filled.** Please quote the reference of the post in the application and on the envelope. The University reserves the right to consider late applications and nominations, and not to fill the positions. Personal data provided by applicants will be used for recruitment and other employment-related purposes.



PROGRAM DIRECTOR POSITION
 Division of Materials Research • National Science Foundation

The National Science Foundation's Division of Materials Research (DMR) is seeking qualified applicants for the position of **Program Director** for the Condensed Matter and Materials Theory (CMMT) Program. The position will be filled on a permanent basis or non-permanent basis for one to three years as a visiting scientist, as a temporary federal appointment, or under the provisions of the Inter-governmental Personnel Act (IPA).

Within the Division, the **Condensed Matter and Materials Theory Program** supports theoretical and computational research in the topical areas addressed by DMR, including biomaterials, ceramics, condensed matter physics, electronic and photonic materials, metallic materials and nanostructures, polymers, and solid state and materials chemistry. The program supports fundamental research that advances conceptual, analytical, and computational techniques for materials research. We support a broad spectrum of research using electronic structure methods, many-body theory, statistical mechanics, and Monte Carlo and molecular dynamics simulations, along with other techniques, many involving advanced scientific computing. Emphasis is on approaches that begin at the smallest appropriate length scale, i.e., electronic, atomic, molecular, nano-, and mesoscale, required to yield fundamental insight into material properties, processes, and behavior and to reveal new materials phenomena. Areas supported by the program include, but are not limited to: strongly correlated electron systems; low-dimensional systems; nonequilibrium phenomena, including pattern formation, microstructural evolution, and fracture; high-temperature superconductivity; nanostructured materials and mesoscale phenomena; quantum coherence and its control; and soft condensed matter, including systems of biological and chemical interest.

Further information about the CMMT program can be found on the DMR website at <http://www.nsf.gov/materials>. Appointees are expected to work with the materials research community to broaden the diversity of participants in NSF programs, and to integrate research and education in the field. Applicants must have a PhD degree or equivalent experience in physics, chemistry, materials science, or a closely related field. In addition, six or more years of successful research experience, research administration, and/or managerial experience pertinent to the CMMT program are required.

Applicants for temporary assignment should refer to vacancy number E20090015-Rotator and applicants for permanent assignment should follow the application instructions for vacancy number E20090016 found at <http://www.nsf.gov/jobs>. Applications must be received by **January 31, 2009**.

The National Science Foundation provides reasonable accommodations to applicants with disabilities on a case-by-case basis. Those applicants, who need a reasonable accommodation for any part of the application and hiring process, should notify the point of contact listed in the vacancy announcement.

NSF is an equal opportunity employer committed to employing a highly qualified staff that reflects the diversity of our nation.

Positions Available



**FACULTY POSITIONS
Mechanical Engineering
Massachusetts Institute of
Technology**

The Department of Mechanical Engineering seeks outstanding candidates for tenure-track faculty positions in the following fields to begin July 1, 2009 or thereafter:

- Dynamical Systems and Controls
- Energy
- Solid Mechanics
- Broadly in Mechanical Engineering

Applicants should hold an earned PhD degree in mechanical engineering or a closely related field by the beginning of the appointment. Faculty duties include teaching at the graduate and undergraduate levels, research, and supervision of student research. We seek candidates who will provide inspiration and leadership in research and actively contribute to core mechanical engineering undergraduate and graduate level teaching. New faculty hires are expected to have a research focus in one of the disciplinary fields listed above, or broadly in mechanical engineering. Applicants must have demonstrated: (1) outstanding research strength; (2) a strong disciplinary background; (3) strong experimental and/or theoretical skills; and (4) the potential ability to synthesize new devices and systems by working across disciplinary boundaries. Appointment would be at the assistant or untenured associate professor level. In exceptional cases, a senior faculty appointment may be possible.

Applicants should send a curriculum vita, a research statement, a teaching statement, and copies of not more than three publications. They should also arrange for four individuals to submit letters of recommendation on their behalf. This information must be entered electronically at the following site: <http://search-meche.mit.edu/>. Submission of applications before **January 31, 2009** is strongly encouraged; full consideration will be given to applications submitted by February 28, 2009. Please refer to the web address for detailed description of each position.

MIT is an equal-opportunity/affirmative action employer. Women and underrepresented minorities are especially encouraged to apply.



Position

Applications and nominations are invited for the Chair position in the Department of Materials Science and Engineering at the University of North Texas. The Department is part of the new College of Engineering at the University of North Texas and has been experiencing significant growth in the past five years. The faculty have interests in metals, ceramics, polymers, micro- and opto-electronic materials, nanomaterials, biomaterials, materials for renewable energy, and computational materials science with funding from federal (e.g., NSF, NIST, AFOSR, DOE, and ARL) and non-federal (TI, GM, Sematech, SRC, etc.) agencies. The Department has excellent facilities in materials processing, testing, and characterization, managed under the umbrella of the Center for Advanced Research and Technology (CART) (<http://cart.unt.edu>), which is an interdisciplinary center, focused on engineering and applied sciences (physics, chemistry, and biology).

Rank and Salary

The selected candidate will be appointed at the rank of full Professor with tenure in the Materials Science and Engineering Department. Salary will be commensurate with academic experience and accomplishments.

Responsibility

The Chair is responsible for handling the Department's academic, fiscal, and personnel matters; providing strategic, entrepreneurial, and visionary leadership for the Department; and fostering excellence in teaching, research, and service. The Chair is the primary advocate for the Department within the College and at regional, national, and international levels. The Chair will also be expected to both lead and work closely with UNT faculty to develop national and international collaborative research proposals to federal, state, and private agencies.

Qualifications

Successful candidates should be qualified for a full-time tenured faculty position, preferably with administrative experience as a department chair or director of personnel working in materials science and engineering. Candidates must have an earned doctorate in Materials Science and Engineering or a closely related field with a record of significant of sustained research funding and scholarly output that qualifies them for the rank of full professor. Additional information about qualifications for the position and about the Department is available at <http://www.mtsc.unt.edu>.

Application Procedure:

Applications and nominations should be sent to MSE.Search@unt.edu. For full consideration, please include a vita, statement of purpose, and the names of five references who will not be contacted without notifying the applicant. Any questions regarding the position should be directed to this email address.

Application Deadline

The committee will begin its review of the applications on November 1, 2008 and will continue to review applications until the search is closed.

The University

The University of North Texas is an emerging national research institution located in the vibrant and rapidly expanding Dallas-Fort Worth metropolitan area and situated in close proximity to DFW International Airport. University enrollment is over 34,000 students with more than 6,500 graduate students. The university offers 257 undergraduate and graduate majors and concentrations.

The University of North Texas is an Equal Employment Opportunity/Affirmative Action employer committed to diversity in its educational programs.

Positions Available



**ENDOWED CHAIR AND DIRECTOR
Center for Materials for
Information Technology
The University of Alabama**

The University of Alabama is seeking candidates for the position of Endowed Chair and Director of the Center for Materials for Information Technology in Tuscaloosa, Alabama. The position will be available on January 1, 2009, and the appointment will be made as a faculty member in a department appropriate to the candidate's field of specialization.

The Center, currently a NSF Materials Research Science and Engineering Center, has a significant number of industrial sponsors and an interdisciplinary focus. Faculty members from six different academic departments and two colleges participate in materials research related to information storage and related areas. The Center also has available world-class fabrication, characterization, and computational facilities commensurate with its broad and interdisciplinary research. The Center's research has focused on magnetic information storage, but leadership of the director in the exploration of new areas is expected. Strong communication skills and a willingness to work in a team environment are critical.

Responsibilities include organization and evolution of the center, establishment of foci for collaborative research, assessment of future needs in information storage and other areas, initiation of research projects appropriate to his/her own expertise, management of the Center's staff, and interaction with industrial, federal, and state agencies to represent the capabilities of the researchers and the facilities of the Center. Candidates should have an earned doctoral degree and a strong record of scholarship and leadership in an area of science or engineering. Additional information about the MINT Center and the University of Alabama can be found at <http://mint.ua.edu/>.

Applicants interested in this position are requested to apply online at <http://facultyjobs.ua.edu/applicants/Central?quickFind=51910>. Consideration of applicants will begin immediately, and will continue until the position is filled.

The University of Alabama is an affirmative action/equal opportunity educator and employer.



**RICHARD J. AND KATHERINE J. JUNEAU
DISTINGUISHED PROFESSOR
(Tenured)
Department of Mechanical Engineering**

The Department of Mechanical Engineering at Louisiana State University (LSU) invites applications/nominations for the position of Department Chair. The position will be tenured and also carry the title of Richard J. and Katherine J. Juneau Distinguished Professor. The Department is ABET accredited and has 25 faculty members. Student enrollment in the department is approximately 450 undergraduates and 100 M.S. and Ph.D. students. LSU is the flagship university in the state, has a Carnegie Research-I status and a current enrollment of nearly 30,000 students.

The Department covers the traditional disciplines of Thermo-Fluids, Mechanical Systems, and Materials Science and Engineering, with several interdisciplinary groups and strong collaborations with other departments and colleges. Research within the department is supported by several centralized resource centers, including the Center of Advanced Microstructures and Devices (CAMD) which houses the only electron synchrotron facility in the southeast, the Materials Characterization Center (MCC), the Center for BioModular Multi-scale Systems (CBM2), and the Center for Turbine Innovation and Energy Research (TIER). Externally funded research programs average in excess of \$3 million annually, and cover the full spectrum of research areas of mechanical engineering (for details see <http://me.lsu.edu>). Mechanical Engineering is one of LSU's designated "Foundation of Excellence" departments.

Required Qualifications: Ph.D. or equivalent degree in mechanical engineering or related disciplines; strong record of achievement in externally funded scholarly research; commitment to excellence in teaching and service to the profession. The Chair must qualify for the rank of tenured full professor within the Department of Mechanical Engineering. An offer of employment is contingent on a satisfactory pre-employment background check. Application deadline is **February 2, 2009** or until a candidate is selected. We welcome nominations of potential candidates. Applications should include a complete vita (including e-mail address), a statement of research and teaching activities, a description of administrative positions and philosophy, and names and contact information of three references. These should be forwarded to: Prof. Kalliat T. Valsaraj, Mechanical Engineering Department Chair Search Committee, Cain Department of Chemical Engineering, 110 South Stadium Drive, Louisiana State University, Ref: Log #1155, Baton Rouge, Louisiana 70803, Phone: (225) 578-1426, E-mail: valsaraj@lsu.edu

LSU IS AN EQUAL OPPORTUNITY/EQUAL ACCESS EMPLOYER



**POSTDOCTORAL RESEARCHER
Department of Physics and Astronomy, and
Wright Center for Photovoltaics Innovation
and Commercialization**

THE UNIVERSITY OF TOLEDO **POSITION #PVIC-081124**

The University of Toledo's Physics and Astronomy Department has an immediate opening for a full-time Postdoctoral Researcher. The primary site for this employment position is off-campus, at the National Renewable Energy Laboratory (NREL) in Golden, CO. The successful applicant will conduct research to advance the science and technology of novel solar cells based on inorganic colloidal-synthesized semiconductor nanocrystals. Responsibilities include designing, fabricating, characterizing, and analyzing nanocrystal-based photovoltaic cells. The project involves working closely with researchers of diverse backgrounds, including physical chemists, synthetic chemists, optical spectroscopists, and engineers, to understand and improve nanocrystal-based solar cells designed to separate and collect photocurrent from photons generating multiple excitons. The researcher is expected to work with senior staff to publish and present key findings in peer-reviewed journals and at regional and national scientific meetings.

Please see the University of Toledo HR website for full position details and application instructions: http://www.utoledo.edu/depts/hr/main/employment/jobs/pvic_081124.html. This position will remain open until filled, and review of applicants will begin December 15, 2008.



WRIGHT CENTER for
PHOTOVOLTAICS INNOVATION
AND COMMERCIALIZATION

The University of Toledo is an Equal Access, Equal Opportunity, Affirmative Action Employer and Educator.

Positions Available

POSITIONS AVAILABLE SSN COLLEGE OF ENGINEERING

Rajiv Gandhi Salai (OMR), Off Chennai, Tamilnadu, India

SSN College of Engineering (SSN) is a premier engineering school in South India approved by the All India Council for Technical Education (AICTE), accredited by the National Bureau of Accreditation and affiliated to Anna University Chennai. It was founded in 1996 by Dr. Shiv Nadar, the Founder Chairman and CEO of HCL Technologies Ltd. SSN, situated on a sprawling campus of 250 acres in the Cyber corridor, Chennai City, South India and equipped with state-of-art infrastructure, was established with the desire of providing technology education of a global standard at an affordable cost. This has defined the philosophy of the SSN which has risen to the 9th rank among all private Engineering schools in India within a short span of 12 years since inception (Source: OUTLOOK magazine, June 2007 & 2008). The intellectual capability of the school is further supported by the SSN Research Centre headed by people of international eminence in the field of science and technology.

SSN offers 7 undergraduate programs and 5 graduate programs in Engineering.

Undergraduate Programs (B.E/B.Tech): Electrical & Electronic Engineering, Electronics & Communication Engineering, Computer Science & Engineering, Information Technology, Biomedical Engineering, Mechanical Engineering and Chemical Engineering.

Graduate programs (M.E): Computer Science & Engineering, Communication Systems, Applied Electronics, Power Electronics & Drives and Computer & Communication.

To further enhance the resources in the areas of quality instruction and research, SSN invites applications for the following positions.

- **Professors** (Ph.D. degree holders with instructional and research focus)
- **Assistant Professors** (Ph. D / Master Degree holders with instructional and research focus)

Remuneration will be attractive apart from perks. The CV can be mailed to **The Administrative Officer, SSN Trust, No 211/95, V.M. Street, Mylapore, Chennai-600 004, India**, or emailed to subramaniann@ssn.edu.in

Telephone: +91 44 24982656, +91 44 24986474.

www.ssn.edu.in

ENDOWED CHAIR SENIOR FACULTY POSITION Materials Science, Condensed Matter or Optical Physics Columbia University

The Materials Science and Applied Physics programs in the Department of Applied Physics and Applied Mathematics at Columbia University seek to fill the Philips Electronics Chair, recently endowed in honor of Professor Gertrude Neumark. The appointment will be at the senior (tenured) level. The search is open to all areas of experimental and computational materials science, condensed matter, and optical physics. A doctoral degree in a relevant science/engineering discipline is required.

Applicants should submit a letter of application, detailed statement of research plans, CV, and four letters of reference by filing an online at academicjobs.columbia.edu/applicants/Central?quickFind=51061. See <http://www.apam.columbia.edu/> for more information about research strengths in the department. The search will close no sooner than **March 16, 2009** and will remain open until the position is filled.

Columbia University is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION Applied Sciences Laboratory Washington State University

The Washington State University's Applied Sciences Laboratory has an open postdoctoral position to undertake density functional theory (DFT) calculations. **For more information and application procedures, visit www.asl.wsu.edu/site/careers.html.**

EEO/AA/ADA



The University of Texas
ARLINGTON™

FACULTY POSITION Nano-Bio Physics The University of Texas at Arlington

The Department of Physics at the University of Texas at Arlington invites applications for a tenure-track faculty position in experimental nano-bio physics with starting date in September 2009. The position is anticipated to be at the Assistant Professor level, however, exceptionally qualified applicants may be considered for appointment at a higher level. Substantial start-up funds will be available.

Applicants must have a PhD degree in Physics or in a closely related field. The successful candidate must be committed to excellence in education, teach physics courses at undergraduate and graduate levels, direct MS and PhD students in research, and establish an externally-funded and nationally recognized research programs. Details about the research programs within the Physics Department can be found at http://www.uta.edu/physics/main/phys_research/.


UT Arlington is a Carnegie-I (Doctoral/Research Extensive) University with more than 25,000 students. UT Arlington, a leading university in the University of Texas System, is located in the heart of the Dallas-Fort Worth Metroplex with opportunities for collaborations with high-tech industries, neighboring universities, and the Southwestern Medical Center, as well as access to many cultural benefits of the metropolitan area.

Qualified candidates should submit an application, curriculum vita, bibliography, statement of research and teaching plans, and the names and contact information of at least three references to Ms. Caye Felton, Department of Physics, University of Texas at Arlington, Box 19059, Arlington, Texas 76019 (or by e-mail to felton@uta.edu). For technical questions, please contact Professor Suresh C. Sharma, Chairman of the Search Committee at 817-272-2266. Review of applications will begin **February 1, 2009** and will continue until the position is filled. This is a security sensitive position, and a criminal background check will be conducted on finalists.

UT Arlington is an Equal Opportunity & Affirmative Action Employer. Qualified women and minority candidates are encouraged to apply.

Positions Available

<p>FACULTY POSITION Department of Advanced Science and Technology Toyota Technological Institute</p>
<p>Toyota Technological Institute has an opening for a tenured or tenure-track faculty position in the Department of Advanced Science and Technology. Applications are encouraged from all relevant areas.</p>
<p>POSITION</p> <p>Tenured or tenure-track Professor at Low Dimensional Science Laboratory</p>
<p>RESEARCH FIELD</p> <p>Physics, chemistry, measurement, and/or applications of low dimensional and/or nanostructures</p>
<p>QUALIFICATIONS</p> <p>A PhD degree in a relevant field. The successful candidate is expected to demonstrate potential to develop strong and outstanding programs in the above research field. It is also necessary for him/her to supervise PhD students, and to teach advanced and basic courses both at the undergraduate and graduate levels.</p>
<p>STARTING DATE</p> <p>At the earliest convenience</p>
<p>DOCUMENTS</p> <ol style="list-style-type: none"> 1. Curriculum vitae (please attach portrait) 2. List of publications 3. Copies of 5 selected papers 4. Brief description of research activities and future plan for research and education (3 pages) 5. Names of two references with Tel/Fax and E-mail address
<p>DEADLINE</p> <p>March 25, 2009</p>
<p>INQUIRY</p> <p>Professor Itaru Kamiya, Head of Search Committee Tel: 052-809-1769 E-mail: trans@toyota-ti.ac.jp http://www.toyota-ti.ac.jp/Jinji/home_E.htm</p> <p>The above should be sent to: Mr. Takashi Hirato, Administration Division Toyota Technological Institute; 2-12-1, Hisakata, Tempaku-ku Nagoya, 468-8511 Japan</p> <p>Please be advised to write "Application for Low Dimensional Laboratory" on envelope.</p>

 SAN JOSÉ STATE UNIVERSITY	<p>TENURE-TRACK FACULTY POSITION Materials Engineering San José State University</p>
<p>The Chemical and Materials Engineering Department at San José State University invites applicants for an assistant professor (tenure-track position) in Materials Engineering. Preferred candidates for the position will have expertise in Materials Characterization and must hold a doctoral degree in Materials Science and Engineering or in a related discipline with appropriate experience. Successful candidates must have a demonstrated interest in developing characterization laboratory capabilities in either nanomaterials, biomaterials, or structural materials, and in addressing the educational needs of undergraduates and graduate students through development of course materials, teaching strategies, and research projects. Full details on the position can be found at http://www.engr.sjsu.edu/about/emp.</p>	
<p>For full consideration, send a letter of application, curriculum vitae, statement of teaching interests/philosophy and research plans, and at least three original letters of reference with contact information by February 15, 2009 to:</p> <p align="center">Dr. Stacy Gleixner, Chair, Search Committee Department of Chemical and Materials Engineering San José State University One Washington Square San José, CA 95192-0082</p> <p>Please include Job Opening ID #13558 on all correspondence.</p>	
<p>San José State University is California's oldest institution of public higher learning. The campus is located on the southern end of San Francisco Bay in downtown San José (Pop. 945,000), hub of the world-famous Silicon Valley high-technology research and development center.</p> <p>SJSU is an Equal Opportunity/Affirmative Action Employer committed to nondiscrimination on the bases of race, color, religion, national origin, sex, sexual orientation, gender status, marital status, pregnancy, age, disability, or covered veteran status consistent with applicable federal and state laws. This policy applies to all SJSU students, faculty, and staff as well as University programs and activities. Reasonable accommodations are made for applicants with disabilities who self-disclose.</p>	

<h2>Journal of Materials Research</h2>									
 <p>the standard for scientific and technical quality in materials research</p>	<p>All print subscriptions include:</p> <ul style="list-style-type: none"> • FREE online access — full text from the <i>Journal's</i> inception in January 1986 to the current issue • archival papers and rapid communications • special focus issue in March 2009 on Indentation Methods in Advanced Materials Research 								
<p>Materials Research Society www.mrs.org/jmr</p>	<p>2009 SUBSCRIPTION RATES</p> <table border="0"> <tr> <td>Members—US</td> <td>\$170.00</td> <td>Institutional—US</td> <td>\$1055.00</td> </tr> <tr> <td>Members—Non-US*</td> <td>\$250.00</td> <td>Institutional—Non-US*</td> <td>\$1130.00</td> </tr> </table> <p><small>*non-US rates include airfreight delivery</small></p>	Members—US	\$170.00	Institutional—US	\$1055.00	Members—Non-US*	\$250.00	Institutional—Non-US*	\$1130.00
Members—US	\$170.00	Institutional—US	\$1055.00						
Members—Non-US*	\$250.00	Institutional—Non-US*	\$1130.00						

Positions Available



RESEARCH POSITIONS
Egypt-IBM
Nanotechnology Research Center



The Government of Egypt has recently signed an agreement with IBM to establish a world-class research center in Egypt with the objective to develop expertise in nanoscience and nanotechnology. IBM Group has a history of innovation and technology leadership, and has developed extensive experience and knowledge within the fields of nanoscience and nanotechnology, with proprietary know-how related to these fields. The newly created Center exhibits state-of-the-art facilities and equipment, and establishes an ongoing way of cooperating with IBM in the field of nanotechnology.

The Egypt-IBM Nanotechnology Research Center is actively looking for qualified candidates for research positions in the following focus areas (the Project Areas):

- **Thin Film Silicon Photovoltaics**—candidates should have an advanced degree in electrical engineering, physics, or material science, with interest and experience in semiconductor technology, integrated circuit fabrication, or designing semiconductor devices including silicon solar cells.
- **Spin-On Carbon-Based Electrodes for Thin Film Photovoltaics**—candidates should have an advanced degree in material science, chemistry, physics, or applied physics, with interest and experience in carbon-based materials.
- **Energy Recovery from Concentrated Photovoltaics for Desalination**—candidates should have an advanced degree with a strong interdisciplinary background in engineering and physics or optics, with interest and experience in material science, sustainable energy, electronics packaging, or thermal management.
- **Computational Modeling and Simulation Software**—candidates should have an advanced degree in computational material science (chemistry, physics, and related engineering areas), with interest and experience in simulation of bulk and transport properties of materials, quantum chemistry techniques, Monte Carlo or molecular dynamics simulation, and high performance computing.

Candidates must have an excellent academic record and an affinity to conceptualize, initiate, and conduct research in the Project Areas stated. English language fluency (spoken and written) is essential, as are good writing and oral communication skills.

Successful candidates will receive training and professional development for 12 to 18 months in IBM Research Laboratories (Switzerland and/or the US) in the Project Areas, including insight into IBM's process, operations, and analytical techniques. After completion of the training and development phase, candidates will be expected to contribute to or lead a full-time research activity in the Egypt-IBM Nanotechnology Research Center. They will be compensated with internationally competitive packages.

For more details and application information, please visit our website at <http://www.egnc.gov.eg>.



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MATERIALS ENGINEER
 U.S. Army Research Office

Applications are being solicited for a Materials Engineer, DB-0806-03 (equivalent to the GS-12/13 grade level), \$67,416 to \$104,223 per annum, or a Materials Engineer, DB-0806-04 (equivalent to the GS-14/15 grade level), \$94,733 to \$144,868 per annum. Salary within the ranges above includes a locality adjustment and depends upon individual qualifications and salary history. The position is located at the U.S. Army Research Office in Research Triangle Park, N.C.

The incumbent creates, directs, and manages a leading extramural basic research program (experimental and theoretical) in materials science, focusing on the physical properties of materials and fostering scientific achievements relevant to future Army systems. Expertise is required in the areas of electronic, optical, magnetic, and actuator materials. Duties include:

- Initiating new research projects in response to Army needs
- Stimulating proposals to respond to those needs
- Analyzing and evaluating proposals
- Communicating with grantees and contractors
- Reviewing and analyzing research reports, and insuring their effective distribution
- Stimulating technology transfer to both Army and civilian users
- Evaluating grantee and contractor performance
- Disseminating program policies and research results
- Maintaining awareness of Army in-house R&D programs
- Developing and presenting briefings and research summaries that highlight projects, objectives, progress, accomplishments, and emerging opportunity areas within materials science to Army leadership and the scientific community
- Initiating and carrying out workshops, conferences, and symposia addressing emerging materials research initiatives
- Serving as the principal Army advocate and representative for basic research activities and needs in physical properties of materials.

In order to maintain scientific acumen, the incumbent may perform research at a local university for up to one day per week. Travel up to 25% of the time may be required. Outstanding verbal and written skills are required. Applicants must show successful completion of a full 4-year course of study in an accredited college or university leading to a bachelor's or higher degree in materials science, or a combination of education and experience equal to a GS-12/13 level position in the Federal government. An advanced degree at the PhD level preferred. Experience must have been in or related to the work of the position and have equipped the applicant with the knowledge, skills, and abilities to successfully perform the duties of the position.

Applicants must be U.S. citizens, be able to obtain a secret clearance, and comply with provisions of the Ethics in Government Act. Interested individuals must apply electronically following instructions at www.usajobs.opm.gov or at www.cpol.army.mil. Vacancy Announcement NEAC08198679 and NEAC08198679D for the DB03, and NEAC08199486 and NEAC08199486D for the DB04.

Opening date is January 20, 2009 and closing date will be February 19, 2009. If you have questions, please contact Mrs. Paula Valdez at 301-394-2109.

Positions Available



Los Alamos National Laboratory – a premier national security research institution, delivering scientific and engineering solutions for the nation's most crucial and complex problems – has the following opportunity available:

Leadership Position at Los Alamos National Laboratory Center for Integrated Nanotechnologies (CINT)

CINT, a Department of Energy/Office of Science Nanoscale Science Research Center operated jointly by Los Alamos and Sandia National Laboratories as a national user facility to establish scientific principles governing the design/performance/integration of nanoscale materials, seeks outstanding candidates for the position of Co-Director.

The Co-Director serves as Co-Chair of our Program Management Team (PMT); shares responsibility with the Director for the overall success of CINT; implements CINT's scientific vision and strategy; serves as primary contact for CINT advisory bodies; and addresses inter-Laboratory operational issues. The selected candidate will act as Center Leader of MPA-CINT, an organization with an annual budget of \$15M focused on programs from threat reduction to applied energy to LDRD. This position is a key member of the Materials Physics and Applications Division Leadership team.

Qualifications: A history of technical leadership/accomplishments, program development/management and strategic planning; effective communication and consensus-building skills; and experience in one or more of MPA-CINT's thrust areas: nanoscale electronics/mechanics, nanophotonics and optical nanomaterials, soft and biological nanomaterials and theory and simulation of nanoscale phenomena. A Ph.D. in a relevant science or engineering field is necessary. Candidates must have the ability to acquire a Q clearance (top secret), which normally requires U.S. citizenship.

Please submit your letter of interest and resume to jobs@lanl.gov, specifying job # **216509**. Refer direct questions to Dr. John Sarrao at sarrao@lanl.gov or **505.665.0481**.

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PURDUE UNIVERSITY

FACULTY POSITION School of Materials Engineering Purdue University

The School of Materials Engineering at Purdue University invites applications for a faculty position at the associate or full professor level. Targeted research areas are polymer physics, polymer mechanics, analytical electron microscopy, and materials for energy sustainability, with outstanding candidates having other research emphases also considered. Successful candidates must hold an earned PhD degree or equivalent in materials science and engineering or related discipline(s) and demonstrate the ability to develop independent research programs at the forefront of their field, as well as effectively teach graduate and undergraduate courses.

The School of Materials Engineering at Purdue University has undergone significant growth in the last five years and now has 20 faculty engaged in interdisciplinary research across a campus that contains a wide spectrum of researchers in materials science (see www.engineering.purdue.edu/MSE).

Submit applications on-line at <https://engineering.purdue.edu/Engr/AboutUs/Employment/Applications>, including curriculum vitae, teaching and research plans (each 3 pages maximum), copies of up to three most relevant publications and names of three references. For information/questions regarding application submission, contact Marion Ragland, Faculty Recruitment Coordinator, College of Engineering, Attn: Dept. Engineering Education at ragland@purdue.edu. Address questions regarding positions to Prof. Kevin Trumble, Search Chair at driscoll@purdue.edu. Review of applications begins **January 10, 2009** and continues until the position is filled.

Purdue University is an equal opportunity/equal access/affirmative action employer fully committed achieving a diverse workforce.



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