

CLASSIFIED

Positions Available

DIRECTORSHIP Ras al Khaimah Centre for Advanced Materials United Arab Emirates

The new Ras al Khaimah Centre for Advanced Materials (RAK-CAM) will be established in the United Arab Emirates in Fall 2007 under the Patronage of His Highness Sheik Saud bin Saqr al Qasimi. The centre will fill multiple ambitious roles for the Emirate:

- (i) become a flagship for advanced materials research in the Middle East
- (ii) provide educational and training opportunities for aspiring scientists and engineers from the Emirate and the region as a whole
- (iii) carry out research in support of local industries
- (iv) spawn new business opportunities in the form of start-up companies
- (v) create new options to ensure energy security and sustainable development in Ras al Khaimah

The scope of RAK-CAM will embrace interdisciplinary materials science in the broadest sense, from structural materials to advanced electronic materials and biomaterials. In the first instance, RAK-CAM will comprise a Director, an Associate Director, eight research scientists, and several visiting professors. These will be supported by a permanent technical and administrative staff as well as short-term (three year) postdoctoral researchers and graduate students. A state-of-the-art 6000 m² building is currently being designed, and construction is expected to commence in late 2007. The research topics pursued in the Centre will include many of the following areas:

- Advanced structural materials, ceramics, and composites
- Polymeric materials, including plastic and molecular electronics
- Inorganic materials; e.g., minerals and novel synthetic inorganics
- Electronic materials; e.g., compound semiconductors, solid state lighting
- Nanomaterials for diverse applications
- Biomaterials; e.g., materials for biofuel technologies
- Materials for solar energy applications

- Energy storage systems, including rechargeable batteries and supercapacitors
- Materials for environmental remediation and hydrocarbon processing; e.g., catalysis and separations
- Materials for water purification and conservation technologies

RAK-CAM is seeking a Director with a distinguished track record in the broad materials science area in either academia, industry, or a national laboratory. This individual will also have extensive experience in administration and leadership. The specific duties of the Director will include playing a central role in recruiting the research staff for RAK-CAM, selecting and purchasing appropriate equipment for the laboratories, and running an active research program. A search committee comprising of Anthony K. Cheetham, Director of the International Center for Materials Research at UC Santa Barbara (Chair); Mildred Dresselhaus, Professor at the Massachusetts Institute of Technology; Richard H. Friend, Professor of Physics at the University of Cambridge; Michael L. Klein, Director of the Laboratory for Research on the Structure of Materials at the University of Pennsylvania; C.N.R. Rao, Linus Pauling Professor at the Jawaharlal Centre for Advanced Scientific Research in Bangalore; and the Hon. Peter Watson, will select the Director.

The Director will receive an internationally competitive salary, tax-free, and a comprehensive benefits package including accommodation, health coverage, an educational allowance for dependents, etc. Further particulars can be obtained from info@rakcam.org. Applications, comprising a full resume, list of publications, a 3-page research proposal, and the names and addresses of three referees, should be sent electronically to SearchCommittee@rakcam.org. The closing date for applications will be **October 8, 2007**, and short-listed candidates will be called for an interview in November or December 2007. The position will be available from January 2008 onwards.

Positions Available

MATERIALS CHEMIST
Carlson School of Chemistry and Biochemistry
Clark University

The Carlson School of Chemistry and Biochemistry at Clark University invites applications for a tenure-track Assistant Professor to begin Fall, 2008. Candidates are expected to show promise of excellent teaching in introductory or organic chemistry at the undergraduate level as well as advanced and graduate courses in their specialty, and to develop an active, externally funded research program in experimental materials chemistry involving graduate and undergraduate students. Additional information on the department is available at www.clarku.edu/~chem.

Send CV, summary of teaching experience and interests, statement of research plans, and arrange for three letters of reference to be sent to Chairman, Search Committee, Gustaf H. Carlson School of Chemistry and Biochemistry, Clark University, 950 Main Street, Worcester, MA 01610-1477. E-mail enquiries may be directed to mturnbull@clarku.edu. Review of applications begins **October 15, 2007**.

AA/EOE. Minorities and women are especially encouraged to apply.

**TENURE-TRACK
 FACULTY POSITION**
**Experimental Mechanics
 of Materials**
University of Wyoming

The Department of Mechanical Engineering at the University of Wyoming invites applications for a tenure-track faculty position. Applicants are sought at the Associate or Assistant Professor level with expertise in experimental solid mechanics. Areas include but are not limited to the study of heterogeneous material systems, biomaterials, nanomaterials, thin films, fracture, fatigue, and damage.

The successful applicant will be expected to establish a strong, funded research program, as well as teach at the graduate and undergraduate levels. She/He will be expected to participate in interdisciplinary research efforts both within and outside the College of Engineering. Minimum qualifications include an earned doctorate in mechanical engineering, materials science/engineering, or a closely related field.

The Department of Mechanical Engineering (<http://www.eng.uwoyo.edu/mechanical/>) has 11 faculty members and two academic professionals, with a student population numbering around 310. It offers an exceptional educational experience while it continues to strengthen its research productivity.

As the only public four-year institution of higher learning in Wyoming, the University of Wyoming enjoys a distinctive leadership role in the state and region. The main campus is in Laramie, a city of 27,000 people perched in a scenic valley between the Laramie and Medicine Bow Ranges of the Rocky Mountains. A variety of cultural, sporting, and outdoor activities is available. More information about the University can be found at <http://www.uwoyo.edu>.

Applicants are requested to send a letter of application, curriculum vitae, a narrative describing their teaching and research plans, as well as contact information of at least three professional references to:

Prof. Demitris Kouris
 University of Wyoming
 1000 E. University Avenue
 Dept. 3295
 Laramie, WY 82071
 Phone: 307-766-2122

The search committee will begin reviewing applications on **November 1, 2007** and will continue until the position is filled. Submissions via e-mail to kouris@uwoyo.edu will also be considered.

Persons seeking admission, employment, or access to programs of the University of Wyoming shall be considered without regard to race, color, religion, sex, national origin, disability, age, veteran status, sexual orientation, or political belief. Women and minorities are encouraged to apply.



**Leibniz-Institut für
 Neue Materialien gGmbH**

The INM - Leibniz Institute for New Materials is a basic and applied research institute in transition to new scientific fields. It has currently about 180 employees and excellent research equipment and is well supported by public and third-party funding. Its present focus is on chemical nanotechnology, where the institute holds key patents and has close international links to industry.

Under new leadership the INM plans to extend its science base to novel areas in advanced materials research. To shape the scientific future of the institute, we seek to appoint several

Senior Group Leaders / Junior Group Leaders

with interest in establishing largely independent research groups. The positions will initially be limited to 3 years, with possible extension to 5 years subject to evaluation. Permanent positions will be available on a competitive basis. Topical areas of interest are (but are not limited to):

- functional surfaces and thin film materials
- nanotribology and small-scale mechanics
- biomaterials, biomimetics, nanotoxicity
- adaptive, regenerative and self-healing materials
- mechanism-based materials modeling and simulation.

The successful candidates will have a Ph.D. in physics, chemistry, materials science, biology or a related area with an excellent record of publication in research journals. The ability and willingness to communicate and collaborate effectively in an interdisciplinary environment are essential. The new groups will be provided substantial support from the institute's personnel and equipment resources, and will also be expected to raise third-party funding. The research conducted must be published in high-quality reviewed journals of international standing.

The INM offers a creative working environment and the challenging atmosphere of an institution in transition. Its directions range from basic science to technology transfer. Financial compensation will be competitive and depend on previous research experience. Links with adjacent Saarland University including opportunities for teaching are strongly encouraged. Numerous connections with industrial partners will also provide additional career opportunities. The location of the institute is Saarbrücken, a lively town near the German-French border with fast connections into both countries.

The INM promotes the occupational chances of women; female scientists are therefore especially encouraged to apply.

Further information under www.inm-gmbh.de and www.mf.mpg.de. For further information or telephone inquiries please contact Prof. Arzt at eduard.arzt@inm-gmbh.de.

Applications including a CV, publication list and an exposé of the planned research (including required resources) are invited by September 15, 2007 (later submissions will also be considered). Please address your application to: Prof. Eduard Arzt, Scientific Director and CEO, Leibniz Institute for New Materials, Campus D2 2, 66123 Saarbrücken, Germany.

Weitere Informationen zur Leibniz-Gemeinschaft finden Sie unter www.leibniz-gemeinschaft.de



Positions Available

**POSTDOCTORAL POSITIONS
Lens Data Analysis
Indiana University Cyclotron Facility**

The Indiana University Cyclotron Facility seeks candidates to fill two Lens Data Analysis Postdoctoral Positions (Ref: 20707-07). These positions will play a central role in supporting research activities at the Low Energy Neutron Source (LENS) being constructed at Indiana University. Responsibilities will include the development of techniques for the acquisition, analysis, visualization, and modeling of data from the neutron scattering instruments at LENS as well as the modeling and simulation of new neutron scattering instruments being developed at LENS. Responsibilities will also include supporting IU and other faculty carrying out research at LENS. The successful candidate will be expected to develop a scientific research program, either independently or in collaboration with other faculty at IU, utilizing x-ray and neutron scattering instrumentation. Topics of interest include novel materials, biological systems, emulsions, membranes, and spin echo cold neutron scattering techniques.

A PhD degree in Physics, Chemistry, Computer Science, or Information Technology is required. Experience with neutron data analysis and with C++ and object-oriented programming languages is essential. Experience with x-ray and neutron techniques (particularly SANS, Reflectivity, and time-of-flight techniques) is highly desirable. Good communication skills and the possession of diverse scientific interests will be important for interactions with outside users.

Interested applicants should send a curriculum vita, a statement of research interests, and contact information for three references to: Ms. Barbara Black-Kurdziolek, IUFC, 2401 Milo B. Sampson Lane, Bloomington, IN 47408, or to baablack@indiana.edu. Review of applications to begin immediately; position will be posted until filled.

Indiana University is an Affirmative Action, Equal Opportunity Employer committed to excellence through diversity. The University actively encourages applications of women, minorities, and persons with disabilities.



**RESEARCH FELLOW POSITIONS
Materials Theory, Modeling and Simulation Laboratory
Institute of High Performance Computing**

The Materials Theory, Modeling and Simulation Laboratory (MMSL), a basic research organization sponsored by the Institutes of High Performance Computing (IHPC) and Materials Research and Engineering (IMRE), Singapore, invites applications from outstanding candidates for up to four research fellow positions. The MMSL, under the directorship of Prof. David J. Srolovitz, has existing expertise in a wide range of areas including *ab initio* theory, dislocation dynamics, phase-field models, solid mechanics, and molecular dynamics. The successful candidates will have latitude in defining and pursuing research into theory, modeling, and simulation of materials. MMSL, located within IHPC, provides access to several supercomputers for large-scale materials simulations. Qualified candidates will possess a PhD degree in materials science, physics, chemistry, solid mechanics, or a closely related discipline. Initial appointments are for two-year terms. The remuneration, relocation, and travel budgets are competitive. International candidates are encouraged to apply.

The evaluation of applications will begin immediately, and will continue until all positions are filled. Applicants should submit a resume, their research interests, and three references to (with Job Reference: MMSL) recruitment@ihpc.a-star.edu.sg, or by mail to The Human Resource Manager, Institute of High Performance Computing, 1 Science Park Road, #01-01 The Capricorn, Singapore 117528.



**Faculty Positions
Louisiana Tech University**

The College of Engineering and Science invites applications for tenure-track positions in the following programs.



- Biomedical Engineering
- Chemical Engineering
- Electrical Engineering
- Mechanical Engineering
- Chemistry
- Physics

All hires will have joint appointments with the Institute for Micromanufacturing (IfM). The IfM (<http://www.latech.edu/ifm/>) is a world-class resource that since its inception in 1991 has been at the forefront of academic, outreach and research innovations. Starting from its original micromanufacturing emphasis, the Institute has grown to its current five research thrust areas in Nanotechnology, Biotechnology, Biomedical Nanotechnology, Environmental Technology, and Information Technology.

This cluster hire is designed to build a team of faculty and researchers to complement existing strengths at the IfM and to advance its core research programs. Ideal candidates will have expertise in one or more of the following areas: 1) materials science and synthesis, polymer chemistry, and soft materials; 2) micro/nano scale patterning, lithography, and printing for micro/nanosystems; 3) micro/nanofluidic devices and systems; 4) cell and molecular biology and bionanotechnology.

Applicants must have a doctorate in the targeted areas or a closely related field. Candidates will be considered at all faculty ranks. The successful candidates are expected to actively participate in interdisciplinary research efforts associated with the Institute for Micromanufacturing: initiate, build and sustain an externally funded research program; and supervise masters and doctoral students. Excellent written and oral communication skills, strong teaching skills, and a commitment to high quality professional service are also expected.

Send curriculum vitae, statement of research and teaching interests, names and contact information for at least three references to Chair of IfM Search Committee, College of Engineering and Science, Louisiana Tech University, P.O. Box 10137, Ruston, LA 71272, or submit electronically to IfMSearch@latech.edu. Review of applications will begin on October 1, 2007, and will continue until positions are filled. Louisiana Tech University is an EEO/AA employer. Women and minorities are strongly encouraged to apply.



OAK RIDGE INSTITUTE FOR SCIENCE AND EDUCATION

**ATOM PROBE TOMOGRAPHY SCIENTIST
Materials Science and Technology Division
Oak Ridge National Laboratory**

Project Description: This position will focus on the microstructural characterization of materials with atom probe tomography. The applicant will supervise and assist participants of the Oak Ridge National Laboratory SHaRE User Facility, Oak Ridge, Tennessee, in the operation of the local electrode atom probe, specimen preparation with a dual beam focused ion beam miller, and atom probe data reconstruction and analysis. The applicant will also be involved with the development of new methods of atom probe data analysis and specimen preparation.

Qualifications: Doctoral degree required with disciplines in other Physical Sciences or Physics. Applicants cannot have received the most recent degree more than five years prior to the date of application and must complete all degree requirements before starting their appointment.

How to Apply: Qualified applicants may apply online at https://www2.ornl.gov/ORNL_POST/. All applicants will need to register before they can begin the online application. For complete instructions on how to apply, please see the instructions at <http://www.ornl.gov/orise/edu/ornl/ornl-pdpm/application.htm>. When applying for this position, please reference the position title and number (ORNL07-60-MSTD).

This appointment is offered through the ORNL Postdoctoral Research Associates Program and is administered by Oak Ridge Associated Universities (ORAU). This appointment is open to all qualified U.S. and non-U.S. citizens without regard to race, color, age, religion, sex, national origin, physical or mental disability, or status as a Vietnam-era veteran or disabled veteran.

Positions Available

Faculty Positions – Materials Science & Engineering

Located in Ithaca, N.Y., Cornell University is a bold, innovative, inclusive and dynamic teaching and research university where staff, faculty, and students alike are challenged to make an enduring contribution to the betterment of humanity.

The Department of Materials Science and Engineering at Cornell University anticipates filling several faculty positions over the next few years. For the 2008-2009 academic year, we are searching for an exceptional candidate who will dramatically enhance our program in one or more of our strategic research areas: Energy and Environmental Technology, Biotechnology and Life Sciences, Nanotechnology, and Information and Telecommunications Technology (for more information see <http://www.mse.cornell.edu>). Applicants at all levels will be considered.

Candidates are expected to have or 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.

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 to:

**Chair, Faculty Search Committee
Department of Materials Science and Engineering
Cornell University
214 Bard Hall, Ithaca, New York 14853**

Applications will be reviewed starting October 15, 2007 and will be accepted until this position is filled.

<http://www.mse.cornell.edu/mse/news/jobs/index.cfm>



Cornell University

*Cornell University is an Affirmative Action/
Equal Opportunity Employer and Educator.*

<http://chronicle.com/jobs/profiles/2377.htm>



**FACULTY POSITIONS
Materials Science and Engineering
McMaster University**

The Department of Materials Science and Engineering at McMaster University is seeking qualified applicants for two tenure-track faculty positions at the Assistant or Associate Professor levels, depending on the experience of the candidate. The successful applicants will be outstanding emerging researchers with demonstrated expertise in either of the following areas:

- Mechanical Properties of Materials (Reference: MECHPRO7)
- Chemical Production/Processing of Materials (Reference: CHEMAT07)

McMaster University has a network of research institutes that provide stimulating interdisciplinary research opportunities, including the McMaster Steel Research Centre, the McMaster Centre for Automotive Materials, the McMaster Manufacturing Research Centre, and the Brockhouse Institute for Materials Research.

The successful candidates will be expected to develop strong research activities that will attract external research funding, supervise graduate students, and teach both undergraduate and graduate courses. Applicants must have a PhD degree in Materials Engineering or a closely related discipline. Registration, or eligibility for registration, by the Professional Engineers of Ontario will be considered an asset.

McMaster is strongly committed to employment equity within its community, and to recruiting a diverse faculty and staff. The University encourages applications from all qualified candidates, including women, members of visible minorities, Aboriginal persons, members of sexual minorities, and persons with disabilities. All other qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be given priority. Salary is commensurate with qualifications and experience.

Applications, including a CV, a statement detailing research and teaching interests, the position reference, and the names of three referees should be sent to:

Faculty Selection Committee
Department of Materials Science & Engineering
McMaster University, JHE 357
1280 Main Street West
Hamilton, ON L8S 4L7
Email: jane@mcmaster.ca
MECHPRO7, CHEMAT07



University of California
LAWRENCE LIVERMORE NATIONAL LABORATORY
Science in the National Interest

LAWRENCE POSTDOCTORAL FELLOWSHIP

The Lawrence Livermore National Laboratory (LLNL) has openings available under its Lawrence Fellowship Program. This is a highly desirable, prestigious postdoctoral position with ample resources and freedom to conduct cutting-edge research in a field of the candidate's choice. The duration of the Fellowship is up to three years. Typically two to four openings are available each year. Fellowships are awarded only to candidates with exceptional talent, credentials and a track record of research accomplishments.

Candidates will do original research in one or more aspects of science relevant to the mission and goals of LLNL which include: Physics, Applied Mathematics, Computer Science, Chemistry, Material Science, Engineering, Environmental Science, Atmospheric Science, Geology, Energy, Lasers and Biology. Successful candidates may participate in experimental or theoretical work at LLNL, and will have access to LLNL's extensive computing facilities, specialized laboratory facilities and field equipment. A senior scientist will serve as a mentor to each of the Fellows. The candidates will receive full management and administrative support. The salary is \$8,092/mo.

Please refer to our web page <http://fellowship.llnl.gov> for eligibility requirements and instructions on how to apply. When applying and prompted, please mention where you saw this ad. The deadline for application is November 2, 2007. LLNL is operated by the University of California for the National Nuclear Security Administration/Department of Energy. We are an Equal Opportunity Employer with a commitment to workforce diversity.

Lawrence Livermore National Laboratory

<http://fellowship.llnl.gov>

Positions Available



INDUSTRIAL RESEARCH SCIENTIST
Large Area Thin Film Device
PPG Industries, Inc.

Are you interested in working in a dynamic, growth oriented environment and being part of a successful, global company? If so, then we would like you to consider joining our team. PPG Industries, an \$11 billion leading producer of coatings, glass, chemicals, and fiberglass is seeking talented people for an Industrial Research Scientist position in the Solar/CVD Process Development Group within Glass R&D.

The Glass Technology Center is located 15 miles from downtown Pittsburgh. The regional area in which Pittsburgh is located, with its four surrounding counties, is ranked 19th in size in the country with a population of approximately 2.3 million people. It is home to major sports teams, universities, and cultural activities; and also offers exceptional outdoor recreation in all seasons.

The successful candidate will help develop large area, thin film devices through device modeling, product design, and process development. Individual will have demonstrated achievements in relevant product and process areas, including device modeling and simulation, device fabrication with thin film techniques, and device measurement and characterization. A background in development of large area devices using organic and/or inorganic materials (e.g., photovoltaics or display applications) is preferred. Position requires approximately 25% travel to PPG and customer facilities. Will consider individuals with a PhD degree in Chemistry, Materials Science & Engineering, or Physics. Excellent communication skills with a track record of successful implementations are mandatory.

Candidates must be authorized to work permanently in the United States. We would like to thank candidates who submit their interest for this position. Due to the volume of resumes that we receive, only those candidates selected for interviews will be contacted. Candidates who receive a job offer will be required to successfully pass a drug/toxins test and background check.

PPG Industries, Inc. offers an excellent compensation and benefits package and an opportunity to grow and develop your career in an environment that values employee ideas and diversity. To learn more about PPG and apply for this position, visit our web site at <http://www.ppg.com/>.

An Equal Opportunity Employer.



We believe that by applying the highest business ethics and visionary thinking — everything is within our reach, and yours.

Join Lockheed Martin, one of the foremost systems engineering, software, and systems integration companies in the world.

The **Knolls Atomic Power Laboratory (KAPL) in Schenectady, New York** has several openings. Current positions require M.S. or Ph.D. degrees (preferred) in Materials Science or Engineering, Nuclear Engineering, or a related field. Opportunities include:

Scientist: Materials Modeling (13358BR)

The candidate will apply modeling technology to performance and manufacturing issues related to nuclear power plant materials. Strong modeling skills and materials knowledge are needed. Expertise in one of the following areas: finite element methods, thermodynamic theory and modeling, solid mechanics molecular dynamics, Monte Carlo, rate theory, or ab initio methods.

Materials Engineer: Advanced Reactor Materials (12829BR)

Responsibilities include research, development, and evaluation of reactor materials, development of testing

and analysis approaches, and establishment of design parameters using mechanistic models. Candidates must have expertise in one or more of the following: nuclear materials, nuclear engineering, materials science, and computational analysis.

Materials Engineer: Steam Generator Design and Materials (40542BR)

The successful candidate will be responsible for developing long-range predictions of the corrosion and structural performance of nuclear plant steam boilers and applying this knowledge to resolve manufacturing issues. The candidate will have experience in one or more of the following areas: heat exchanger design, aqueous corrosion of metals, fracture mechanics, structural mechanics, and metallurgy.

Selected applicants will be subject to a Federal background investigation and must meet eligibility requirements for access to classified matter. U.S. citizenship is required. Apply ONLINE at www.lockheedmartin.com/careers Please include a current resume, a list of publications, a minimum of 3 references, and a brief description of your research interests.

An equal opportunity employer.



POSTDOCTORAL RESEARCH ASSOCIATE
Institute for Shock Physics
Applied Sciences Laboratory
Washington State University

The Institute for Shock Physics Applied Sciences Laboratory at WSU has an immediate opening for a postdoctoral research associate to synthesize nanocomposite materials and to study their morphological and optical properties. A PhD degree in Chemistry or related field required. Visit www.shock.wsu.edu/opportunities.html for application procedures.

EEO/AA/ADA

POSTDOC AND GRADUATE ASSISTANTSHIPS
Department of Mechanical Engineering
Texas Tech University

The Department of Mechanical Engineering at Texas Tech University, Lubbock, Texas, invites applications for postdoctoral and graduate study for a PhD degree in nanomaterials area. A MS/BS degree in Materials Science/Engineering or related field is required. Interested persons please send an e-mail to Dr. Jharna Chaudhuri at jharna.chaudhuri@ttu.edu or Dr. Alan Jankowski at alan.jankowski@ttu.edu.

AA/EOE

Positions Available



**A. JAMES CLARK
SCHOOL OF ENGINEERING**

**APPLICANTS SOUGHT FOR THREE POSITIONS
UNIVERSITY OF MARYLAND ENERGY RESEARCH CENTER**

The A. James Clark School of Engineering at the University of Maryland is seeking applicants for its new University of Maryland Energy Research Center (UMERC) with a preferable starting date in the third quarter of 2008.

The Clark School is seeking three new faculty interested in advancing the frontiers of science and technology in the broad area of energy, with a special focus on forward-looking approaches for alternative energy generation and storage. The initial focus of UMERC will be in the following specialty areas: fuel cell systems; small-scale power systems; solar energy conversion; next generation nuclear reactors; biological processes for fuel production; nuclear fusion; and oil recovery, transport and processing.

Two of the available positions will be filled at the mid-career or senior faculty level. The appointees will fill existing chairs within the College, the William Crentz Endowed Chair and the Herbert Rabin Endowed Chair. One of the two appointees will serve concurrently as Director of UMERC. Candidates for these positions shall have a distinguished record in energy-related research; additionally, it is highly desirable to have a broad understanding of U.S. and international energy issues and technology programs.

The remaining position will be filled at the junior faculty level. Strong research interest in energy related topics is required, with a prior energy-research background desirable. Candidates will also be evaluated on interest and commitment to educational programs.

The appointments can be made in any of the college's departments; joint appointments will also be considered. The search is ongoing, but for best consideration applications should be received by **October 31, 2007**.

Please submit letter of interest, full resume including list of publications, and the names of at least four references, preferably in PDF format by electronic mail to: **Ms. Lisa Perez, Office of the Dean, at umerc.eng@gmail.com**

The University of Maryland is an equal opportunity, affirmative action employer with a strong commitment to the principle of diversity. In that spirit, applications from minority groups and women are especially invited.

<http://eng.umd.edu/employment/>



Sandia National Laboratories

**RESEARCH SCIENTIST
Computational Materials Science
Sandia National Laboratories**

The Materials Physics Department at Sandia National Laboratories in Livermore, CA seeks a research scientist to develop a world-class research program in computational materials science. The program will both develop new techniques for computational materials science and apply these and other techniques to solve challenging material physics problems, including the properties of interfaces and surfaces, electronic transport in nanostructures, chemistry on surfaces, and the performance of thermoelectric materials. Our department conducts a broad array of experimental and theoretical research to identify and understand the fundamental physical mechanisms underlying the surface, interface, and transport behavior of a variety of advanced materials.

REQUIRED: PhD degree in physics, materials science, or closely related field. Experience with theoretical development, implementation, and application of electronic structure calculations using first-principles techniques; a sustained record of research accomplishments in a postdoctoral or more advanced position that documents scientific leadership; and demonstrated commitment to work in teams, particularly with experimentalists.

BENEFITS: Medical, dental, vision, 401K with company match, pension plan, three weeks vacation, flexible work schedules with alternate Fridays off, and fitness facilities.

See full job description and apply ONLINE at www.sandia.gov/employment/career-opp, **Job #58328**. Include your resume, list of publications, three references minimum, and brief description of your research interests. U.S. citizenship is required to obtain Department of Energy security clearance.

EO/AAE

**ASSOCIATE EDITOR
American Institute of Physics**

The American Institute of Physics (AIP) is seeking an experienced individual with a background of physical science in the private sector, to report and write news related to physics and the private sector for *Physics Today*. The successful candidate will also assume responsibility for developing, acquiring, editing, and producing "Tools and Techniques" material in conjunction with the PT staff. He/She will additionally write some other news content and perform other editorial duties as needed. The position is in College Park, Maryland, and may involve some travel.

Qualifications

A bachelor's degree in a physical science is highly desirable; an advanced degree is a plus. Other degrees in other disciplines will be considered. At least five years of experience reporting on or working in the science/technology-related sector is required. The ideal candidate will have strong interpersonal and communication skills and the abilities to meet deadlines and to interact effectively with the physics community. Excellent reporting, writing, and editing skills are required.

If you feel you have the qualifications and would like to apply for this position, please forward your resume to the Human Resources Division, One Physics Ellipse, College Park, MD 20740; E-mail: aiphr@aip.org; or Fax: 301-209-0847.

The American Institute of Physics is an Affirmative Action and Equal Opportunity Employer.

Positions Available



RESEARCH ENGINEER/SCIENTIST
Chemical Vapor Deposition
PPG Industries, Inc.

Are you interested in working in a dynamic, growth oriented environment and being part of a successful, global company? If so, then we would like you to consider joining our team. PPG Industries, an \$11 billion leading producer of coatings, glass, chemicals, and fiberglass is seeking talented people for a Research Engineer/Scientist position within the Solar/CVD Process Development Group at the Harmar Township, PA Glass Technology Center.

The Glass Technology Center is located 15 miles from downtown Pittsburgh. The regional area in which Pittsburgh is located, with its four surrounding counties, is ranked 19th in size in the country with a population of approximately 2.3 million people. It is home to major sports teams, universities, and cultural activities; and also offers exceptional outdoor recreation in all seasons.

The incumbent will work in the area of chemical vapor deposition (CVD). The active areas of CVD research include process modeling, process development, and coating reactor design. In addition, there is significant concurrent product development effort in this area. Experience in the area of transparent conductive or other functional oxide materials is desired. Incumbent will have demonstrated achievements in relevant process development areas, including process modeling and simulation (Computational Fluid Dynamics), CVD film growth, coating reactor design, chemistry of organometallic precursors, and thin film modeling. Ability to develop new competencies, work in a team environment, and in collaboration with manufacturing and marketing functions is necessary. Anticipated travel time is approximately 25%. Will consider candidates with a PhD degree in Chemical or Mechanical Engineering, Chemistry, Materials Science & Engineering, or Physics. Excellent communication skills with a track record of successful implementations are mandatory.

Candidates must be authorized to work permanently in the United States. We would like to thank candidates who submit their interest for this position. Due to the volume of resumes that we receive, only those candidates selected for interviews will be contacted. Candidates who receive a job offer will be required to successfully pass a drug/toxins test and background check.

PPG Industries, Inc. offers an excellent compensation and benefits package and an opportunity to grow and develop your career in an environment that values employee ideas and diversity. To learn more about PPG and apply for this position, visit our web site at <http://www.ppg.com/>.

An Equal Opportunity Employer.



FACULTY POSITIONS
Materials Science and Engineering
McMaster University

The Department of Materials Science and Engineering at McMaster University is seeking qualified applicants for two tenure-track faculty positions at the Assistant or Associate Professor levels, depending on the experience of the candidate. The successful applicants will be outstanding emerging researchers with demonstrated expertise in either of the following areas:

- Corrosion of Automotive Materials (Reference: CORR07)
- Strip Casting of Light Metals (Reference: CAST07)

These positions have been created as part of a major initiative in automotive materials funded by General Motors and the Federal and Provincial Governments. The successful applicants will have access to state-of-the-art facilities, substantial research funding, and a broad network of eight researchers at McMaster with interests in materials and manufacturing processes for lightweight vehicles.

McMaster University has a network of research institutes that provide stimulating interdisciplinary research opportunities, including the McMaster Centre for Automotive Materials, the McMaster Manufacturing Research Centre, the McMaster Steel Research Centre, and the Brockhouse Institute for Materials Research.

The successful candidates will be expected to develop strong research activities that will attract external research funding, supervise graduate students, and teach both undergraduate and graduate courses. Applicants must have a PhD degree in Materials Engineering or a closely related discipline. Registration, or eligibility for registration, by the Professional Engineers of Ontario will be considered an asset.

McMaster is strongly committed to employment equity within its community, and to recruiting a diverse faculty and staff. The University encourages applications from all qualified candidates, including women, members of visible minorities, Aboriginal persons, members of sexual minorities, and persons with disabilities. All other qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be given priority. Salary is commensurate with qualifications and experience.

Applications, including a CV, a statement detailing research and teaching interests, the position reference, and the names of three referees should be sent to:

Faculty Selection Committee
 Department of Materials Science & Engineering
 McMaster University, JHE 357
 1280 Main Street West; Hamilton, ON L8S 4L7
 Email: jane@mcmaster.ca
 CORR07, CAST07

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 Tel: 724-779-3004, X 551; Fax: 724-779-8313; amiller@mrs.org

Positions Available



**ENERGY MATERIALS FACULTY POSITIONS
Mechanical and Aerospace Engineering
College of Engineering and Mineral Resources
West Virginia University**

The Department of Mechanical and Aerospace Engineering at West Virginia University anticipates filling two tenure-track and one non-tenure track faculty positions at the Assistant Professor level with expertise in Materials Science and Engineering. A PhD degree in Engineering or a closely related field and strong oral and written communication skills are required.

Successful applicants are expected to teach undergraduate and graduate courses in Mechanical, Materials, and Aerospace Engineering and to develop externally funded research in a highly collaborative program focused on energy materials under the aegis of the Energy Materials Science and Engineering (EMSE) Program (www.mae.wvu.edu/emse/). Numerous opportunities exist for collaboration with industry, local National Laboratories such as NETL, and university programs including the West Virginia University Energy and Environment Initiative, the WVNano Initiative, and the National Institute for Fuel-cell Technology (<http://nift.wvu.edu/>).

One tenure-track position requires expertise in Transmission Electron Microscopy. A new HR-S/TEM will be purchased to enhance existing imaging and characterization facilities, which are described in the Website. Another tenure-track position requires expertise in Ceramics for Energy Applications.

One non-tenure track position requires expertise in computational materials science. Knowledge and experience in *ab-initio* and molecular dynamic simulations of materials are required. Experience supporting processing and/or design of materials and/or energy applications of materials is desirable.

WVU is a comprehensive land-grant institution with an enrollment of over 28,000 students. The University has a Carnegie Doctoral Research Extensive ranking and it is at the center of a developing high-technology corridor, providing challenges and opportunities for the candidates. The Department, one of seven in the college, has 28 tenure-track faculty offering BS, MS, and PhD degrees in both Mechanical and Aerospace Engineering to about 450 undergraduate, 80 MS, and 80 PhD students. MS and PhD degree programs in Materials Science and Engineering are being developed as part of the EMSE program. Additional information may be found on the department website at www.mae.cemr.wvu.edu or by contacting the Dr. Ever Barbero, Chair, 304-293-3111, ext. 2337, Morgantown, WV 26506-6106.

Review of applications will begin **November 1, 2007** and will continue until the positions are filled. Women and minorities are strongly encouraged to apply. Applicants should send a letter describing their qualifications and clearly indicating the position sought (TEM, Ceramics, or Computational), a curriculum vitae, a research plan, and names, addresses, e-mail addresses, and telephone numbers of three references. Applicants to the tenure-track positions should also include a teaching plan. Electronic applications are required and should be sent to: mae-emse@mail.wvu.edu.

West Virginia University is an Equal Opportunity/Affirmative Action Employer

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TODAY!**

Contact Mary E. Kaufold at
724-779-8312 or kaufold@mrs.org



TECHNISCHE
UNIVERSITÄT
DARMSTADT

The Department of Materials- and Geo Sciences at TU Darmstadt, Germany, invites applications for a professorship (W3) in the field of

Solid State Ionics

We are looking for an outstanding and renowned scientist, who will develop an internationally recognized research program and will complement the existing research activities of our department. Active involvement in collaborations with the faculties of chemistry, physics and electrical engineering are expected. Possible research areas may include synthesis, characterization and modelling of novel materials for energy technology (i.e. batteries and fuel cells), sensors and actuators. A specific topic of interest is the interaction of functional materials with chemical, mechanical, electrical and optical stimuli. Successful candidates will dedicate themselves to excellence and innovation in both undergraduate and graduate education in materials science.

The position is tenured or tenure-track depending on experience and will be available in summer 2008. Salary is commensurate to qualification and experience according to the German W3-level. For the employment all regulations of HHG (Hessisches Hochschulgesetz) § 70 and § 71 apply. TU Darmstadt is committed to equal opportunity in employment and gender equality in its working environment. To increase equal gender distribution, we strongly encourage applications from qualified women. Candidates with disabilities will be preferentially considered in case of equal qualification.

Applications including a curriculum vitae, research and teaching statements should be addressed to: Dekan des Fachbereichs Material- und Geowissenschaften, Petersenstr. 23, 64287 Darmstadt, Germany. An electronic copy preferentially in PDF-format is also requested.

Review of applications will begin November 1, 2007 and will continue until the position is filled. Questions concerning the position can be addressed to Prof. K. Albe, +49-6151-166374, e-Mail: albe@mm.tu-darmstadt.de

**FACULTY POSITION
Viterbi School of Engineering
University of Southern California**

The Mork Family Department of Chemical Engineering and Materials Science at the USC Viterbi School of Engineering is recruiting faculty in the area of materials science. Qualified applicants are encouraged to apply. Of particular interest are applicants with expertise in polymeric and bio materials, as well as with nanoscale materials at the inorganic and biological interface. Strong opportunities exist for multi-disciplinary collaborations, including the USC Keck School of Medicine.

Qualified applicants should contact Professor Theodore Tsotsis, by phone at 213-740-2227 or by e-mail at tsotsis@usc.edu.

USC is an Affirmative Action/Equal Opportunity Employer and strongly encourages applications from women and members of underrepresented groups.

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Positions Available



FACULTY POSITIONS
School of Materials Science
and Engineering
Georgia Institute of Technology

The School of Materials Science and Engineering at the Georgia Institute of Technology is seeking to add several outstanding faculty at all levels in strategic areas of Biomaterials (including biomanufacturing, biomineralization, biosensing, bioelectronics, biophotonics, and biomodeling); Nano-materials (including synthesis, advanced characterization, fabrication of nano devices and systems, and modeling and measurements of properties); Materials for Sustainable Energy, as well as the fields of Advanced Ceramics and Metallurgy.

Qualified candidates must hold a PhD degree or equivalent in materials science and engineering, or related science/engineering discipline. The candidates must possess a distinguished record of research accomplishments and publications, and the ability to mentor graduate students and develop an innovative research and educational program. Successful candidates will be expected to attract external funding and build a strong sponsored-research program, lead independent research at the cutting edge of their field, and teach undergraduate and graduate courses. Selection process will include passing a pre-employment background screening.

The School of Materials Science and Engineering (www.mse.gatech.edu) boasts diverse expertise of faculty with almost equal shares of expertise in structural, electrical, nano-, and bio-materials. It is the hub of materials related research and education activities at the Georgia Institute of Technology. A number of faculty hold joint appointments in various schools and colleges on campus. Its internationally-recognized faculty led more than a dozen interdisciplinary research centers and programs. The School of Materials Science and Engineering, and the College of Engineering at Georgia Institute of Technology, are amongst the top-ranked programs in the U.S.

Applications with the following documents should be submitted online at <https://www4.me.gatech.edu/mse/facrecruit/apply/index.asp>:

- Cover letter (*required*)
- Curriculum vitae (*required*)
- Statement of research interest (*required*)
- Statement of teaching philosophy (*required*)
- List of references (*required*)
- Other documents (*optional*)

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



FACULTY POSITION
Analytical Electron Microscopy
Department of Materials Science & Engineering
Lehigh University

Lehigh seeks to fill a tenure-track position at the level of Assistant or Associate Professor in Materials Science and Engineering. The department is searching for an outstanding individual who develops new analytical electron microscopy (AEM) techniques and applies these methodologies to solve cutting edge nanocharacterization problems in the fields of Materials Science, Nanotechnology, or Electronic Materials. An earned doctorate is required, as well as demonstrated ability in teaching and research.

The successful candidate will be responsible for teaching undergraduate and graduate courses in the Materials Science and Engineering curriculum, and establishing a vibrant, high-quality research program. This will include participation in multidisciplinary activities such as those coordinated by the Center for Advanced Materials and Nanotechnology, the International Materials Institute for New Functionality in Glasses, the Sherman Fairchild Center for Solid State Physics, and the Center for Optical Technologies. The Nanocharacterization Laboratory at Lehigh University has an excellent suite of electron-optical instrumentation (www.lehigh.edu/~inmicro) including two state-of-the-art aberration corrected analytical electron microscopes, and is home to the world renowned Lehigh Microscopy School. The successful applicant would be expected to provide leadership in the area of aberration corrected AEM and to champion its application to the study of interfaces on the nanoscale. A strong desire to perform interdisciplinary research and a willingness to collaborate across departmental boundaries are essential.

Please submit a CV by **October 30, 2007**, along with a Teaching Proposal describing instructional philosophy and interests at undergraduate and graduate levels, and a three- to six-page Research Proposal describing an externally fundable research program, to Sharon Coe, Lehigh University, 5 E. Packer Avenue, Bethlehem, PA 18015-3195.

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