



Harry S. Truman Fellowship in National Security Science and Engineering



Sandia National Laboratories is one of the country's largest research facilities employing nearly 8,500 people at major facilities in Albuquerque, New Mexico and Livermore, California. Please visit our website at www.sandia.gov.

We are seeking applicants for the **President Harry S. Truman Fellowship in National Security Science and Engineering**. Candidates for this position are expected to solve a major scientific or engineering problem in their thesis work or have provided a new approach or insight to a major problem, as evidenced by a recognized impact in their field.

Sandia's research focus areas are: bioscience, computing and information science, engineering science, materials science, nanodevices and microsystems, radiation effects and high energy density science, and geoscience.

Candidates must meet the following requirements: U.S. citizenship, the ability to obtain and maintain a DOE "Q" clearance, and a Ph.D. (3.5 undergraduate and 3.7 graduate GPA preferred), awarded within the past three years at the time of application, or completed Ph.D. requirements by commencement of appointment. Candidates must be seeking their first national laboratory appointment (pre postdoc internships included).

The Truman Fellowship is a three-year appointment normally beginning on October 1. The salary is \$110,900 plus benefits and additional funding for the chosen proposal. The deadline to apply is November 1st of each year.

For complete application instructions, please visit: http://www.sandia.gov/careers/students_postdocs/fellowships/truman_fellowship.html

Please submit the complete package to: Yolanda Moreno, Sandia National Laboratories, P.O. Box 5800, MS0359, Albuquerque, NM 87185-0359, or email ymoreno@sandia.gov. Please reference **Job ID: 640971**. All materials must be received by November 1, 2012.

Operated by

U.S. Citizenship Required.
Equal Opportunity Employer. M/F/D/V.



ASSISTANT PROFESSOR MATERIALS CHEMISTRY

The Department of Chemistry at the University at Buffalo (UB), State University of New York invites applications for a tenure-track faculty position in experimental materials chemistry at the Assistant Professor level. All areas of materials chemistry will be considered; candidates with interests in imaging, microscopy, or spectroscopy are particularly encouraged to apply. The successful candidate will contribute, through research and teaching, to a new interdisciplinary graduate program in Materials Science and Engineering at UB. An assistant professor is expected to develop a vigorous and funded research program, to be committed to undergraduate and graduate education, and to serve the department, university, and discipline. Applicants must apply online at: www.ubjobs.buffalo.edu/applicants/Central?quickFind=55448.

The following documents must be submitted: letter of application, CV, research proposals, statement on teaching, and the names and contact information of three references. References will be contacted with a request to submit letters online at www.ubjobs.buffalo.edu. Review of applications will begin on October 1, 2012 and will continue until the position is filled. Questions may be addressed to mcsrch@buffalo.edu.

The University at Buffalo, The State University of New York is an Affirmative Action/Equal Opportunity Employer/Recruiter (AA/EOE) and strongly encourages applications from women, minorities, and individuals with disabilities.



Faculty Positions NanoScience Technology Center

The NanoScience Technology Center (NSTC) (www.nanoscience.ucf.edu) at the University of Central Florida (UCF) in Orlando invites applications for a tenure-track faculty position in the area of experimental nano-bio sciences with emphasis on nanotoxicity, nano tissue engineering, protein nanotechnology, or other cutting edge nanotechnology fields. A suitable candidate must have a PhD degree in NanoScience or related field and is expected to teach in their related discipline.

The search will be conducted jointly by NSTC and the Advanced Materials Processing and Analysis Center, which together consist of 24 faculty (10 NSF CAREER, ONR YIA, DARPA YIA), and over 120 graduate students, PostDocs, and staff. Competitive packages are available, and collaboration with researchers in academic departments, schools, and centers, including College of Medicine, Center for Research and Education in Optics and Lasers (CREOL), Florida Solar Energy Center (FSEC), and Burnett School of Biomedical Sciences is encouraged. There are plenty of collaboration opportunities with other institutes and research centers located within a few miles from the UCF campus, including Florida Hospital, Sanford-Burnham Medical Research Institute Lake Nona, MD Anderson Cancer Center Orlando. UCF has over 57,000 students and is a comprehensive research and education institute.

Candidates should apply before **November 1, 2012**. The online application at <https://www.jobswithucf.com/postings/33215> requires a CV, research plans, teaching philosophy, and list of three references. For questions please contact NSTCsearch@ucf.edu. Only online applications will be considered.

UCF is an Affirmative Action/Equal Opportunity Employer. Minorities and women are encouraged to apply. As an agency of the State of Florida, UCF makes all application materials, including transcripts, and selection procedures available for public review upon request.

ÉCOLE POLYTECHNIQUE
FÉDÉRALE DE LAUSANNE

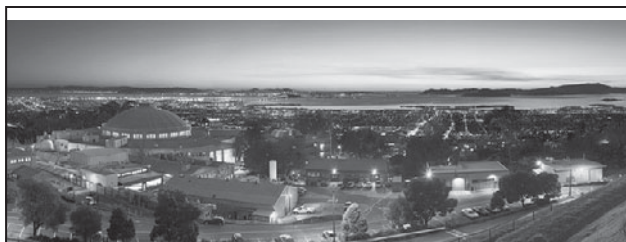
Faculty Positions in Chemical Engineering at the Ecole polytechnique fédérale de Lausanne (EPFL)

As part of a major initiative, the Institute of Chemical Sciences and Engineering (ISIC) at EPFL invites applications for several faculty appointments in Chemical Engineering. Exceptional applicants with expertise in energy-related topics, including solar energy conversion, chemical, electrochemical and biochemical energy conversion, carbon capture and utilization, are especially encouraged to apply. Appointments at the Assistant Professor level (tenure track) are envisioned, but senior faculty levels (Associate/Full) may also be considered.

A PhD in Chemical Engineering or a related field and an excellent track record of innovative research and leadership are generally required. The successful candidate will be expected to establish and direct a vigorous, independent research program and be committed to excellence in teaching at both the undergraduate and graduate levels.

Applications including cover letter, curriculum vitae, publications list, concise statements of research and teaching interests as well as the names and addresses (including email) of five references should be submitted in electronic format via the website <http://sbpositions.epfl.ch/applications/> by **October 15, 2012**.

The EPFL is consistently evaluated as one of the leading universities in science and engineering in Europe. We offer internationally competitive salaries, start-up resources and benefits. The EPFL aims for a strong presence of women amongst its faculty, and qualified female candidates are strongly encouraged to apply. More information about EPFL and the Institute of Chemical Sciences and Engineering can be found at: <http://www.epfl.ch/> and <http://isic.epfl.ch>. For additional information about this call for applications, please contact the director of the institute, Prof. Paul Dyson (paul.dyson@epfl.ch).



Material Sciences Division Director

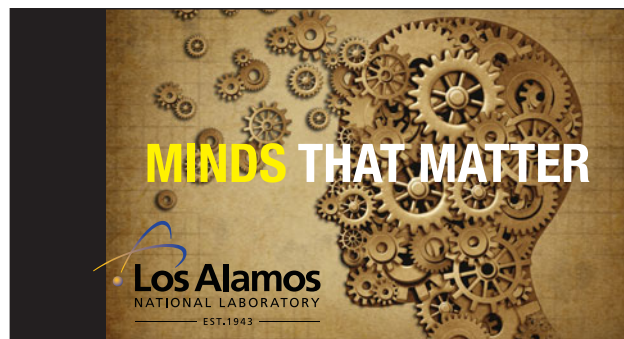
Lawrence Berkeley National Laboratory (LBNL) is seeking a dynamic scientific leader to serve as the Division Director of the Materials Sciences Division (MSD). MSD is a research division of about 700 staff and guests, involving scientists at LBNL and faculty and students at UC Berkeley, with an annual budget of about \$75M. MSD is dedicated to designing, synthesizing, and characterizing the new materials, and discovering and understanding the new phenomena that will propel us into the future <http://www.lbl.gov/msd/>. The successful candidate will have an excellent national and international reputation and record of accomplishment.

The Material Sciences Division Director is responsible for providing scientific leadership for the Division's research programs as well as enhancing existing programs and developing new programs in materials sciences, condensed matter, experimental and theoretical physics, materials chemistry and biomolecular materials. In addition, will oversee two major DOE user facilities, two research centers and build collaborative programs with UC Berkeley and other research institutions.

For a detailed position description and instructions regarding how to apply, please visit www.lbl.gov, access the careers page and reference **job number 74877**.



Berkeley Lab is an affirmative action/equal opportunity employer committed to the development of a diverse workforce.



Located in northern New Mexico, Los Alamos National Laboratory is a multidisciplinary research institution engaged in strategic science on behalf of national security. Our Center for Integrated Nanotechnologies has the following opening:

CHEMISTRY POSTDOC

Focus on interfacial & colloidal chemistry and photophysics of carbon nanomaterials. Colloidal & interfacial chemistry background required to support DOE program generating solution-based carbon nanomaterials for photovoltaic applications. Requires experimental background/strong publication record in colloidal chemistry or nanomaterial characterization and PhD in Chem, Materials Science, Physics, or related within past 5 years or soon to be completed.

Director's Fellowship or Marie Curie, Richard P. Feynman, J. Robert Oppenheimer, or Frederick Reines Fellowships possible.

Apply online at <http://bit.ly/CINTPostdoc2> or visit <http://careers.lanl.gov> and reference vacancy IRC9229.

AA/EOE



CHEMISTS

Phenomenex is a leading provider of advanced technology solutions for separation science techniques in the areas of sample preparation, high-performance liquid chromatography (HPLC), and gas chromatography (GC). The company has the following job openings—**Organic Surface Chemist** and **Sol Gel Chemist**.

Organic Surface Chemist will work with R&D team to develop, enhance, or investigate new and/or existing separation products and technology. Responsible for researching, developing, and controlling sorbents, in particular their surface modification in order to convey particular properties useful in separation science. This may include development of new HPLC, SPE, and other separation science consumables.

Qualifications: PhD degree in Organic Chemistry or Polymer Chemistry required; industry work experience required; extensive knowledge of HPLC and SPE production; at least five years of experience in synthesis and derivatization of silica and polymer.

Sol Gel Chemist will support and/or lead R&D efforts in the design and development of high performance, sol gel based medias and technologies for use in liquid chromatography and solid phase extraction.

Qualifications: PhD degree in Analytical Organic/Biochemical areas required (Masters degree will also be considered); at least three years of experience in inorganic Sol-Gel Chemistry; at least one year of work experience.

Submission of Application: Interested candidates should submit his/her C.V. and cover letter to HR@phenomenex.com.

For more information about the position, visit www.phenomenex.com/careers.

CINT TEM Scientist



Sandia National Laboratories desires an established researcher to lead the Transmission Electron Microscopy (TEM) effort at the Center for Integrated Nano-technologies (CINT) Albuquerque, NM facility. Must be able to obtain and maintain a DOE Security Clearance.

As a CINT Scientist, you will lead a growing, collaborative experimental research program in basic and user-inspired research that exploits the TEM facility and work with other CINT scientists to utilize and advance the CINT Discovery Platforms™, along with other complementary CINT capabilities. Your innovative research will garner National/International peer recognition, lead to highly cited publications in major journals, create new intellectual property, and have impact in important science and technology programs to solve critical challenges in energy and National security. The successful candidate will also hold an appointment at DOE CINT in the Nanoscale Electronics & Mechanics Thrust. For additional information about CINT, please visit <http://cint.lanl.gov>.

Requires a Ph.D. in Material Science; A demonstrated ability to work in, and lead, research teams on complex multicomponent projects, extensive publication history in leading journals; Direct experience with TEM and in-situ TEM; Good communication and interpersonal skills that foster effective scientific collaborations with a diverse population of visiting researchers including students, post-doctoral scientists, and research peers from academic, industrial and other research institutions.

To learn more about this opportunity and to apply online, please visit our website: <http://www.sandia.gov/careers/search-openings.html> and reference Job ID: 641226.

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UNIVERSITY OF PITTSBURGH CENTER FOR ENERGY

R.K. Mellon Endowed Faculty Positions in Energy

As part of the University of Pittsburgh's strategic expansion of its Center for Energy (www.energy.pitt.edu), the Swanson School of Engineering invites exceptional applicants for endowed faculty positions at all ranks in the following key research areas:

- **Energy delivery and reliability**, with an emphasis on electric power transmission and distribution systems, advanced power electronics technologies (FACTS and DC systems), power system modeling and analysis, power system operation and control, and renewable energy integration.
- **Materials for energy-related applications**, with an emphasis on experimental and/or computational efforts on structural and functional materials used in harsh service environments, and therefore including corrosion engineering, catalysts, energy storage, thermo-electrics and sensors.

These key areas also complement our existing and emerging research and education activities in *carbon management and utilization, unconventional gas resources, and direct energy conversion and recovery*.

Established as part of a recent \$22 million gift from the Richard King Mellon Foundation, a total of four endowed faculty positions are available: two Professor-level appointments as *R.K. Mellon Chairs in Energy* and two Assistant/Associate Professor appointments as *R.K. Mellon Faculty Fellows in Energy*.

The successful candidates will greatly benefit from the resources fostered by the University of Pittsburgh's extensive facilities, research partnerships, and close proximity to numerous energy-related companies and research laboratories. For instance, the Department of Energy's National Energy Technology Laboratory (NETL) recently formed a Regional University Alliance (RUA) for energy technology innovation that is in partnership with the University of Pittsburgh and four other nationally recognized universities.

Interested candidates or candidate teams should apply with a **single pdf file** of the following: a cover letter; a full curriculum vita; statements describing teaching and research interests and plans; copies of three representative publications; and the names and contact information for at least three references. Questions and nominations should be addressed to **Prof. Brian Gleeson, Director of the Center for Energy at cfenergy@pitt.edu**.

For the R.K. Mellon Chair in Energy position, please apply at: RKMChairSearch@engr.pitt.edu

For the R.K. Mellon Faculty Fellow in Energy positions, please apply at: RKM FellowSearch@engr.pitt.edu

Screening begins immediately and will continue until the search is closed. The University of Pittsburgh is an Affirmative Action, Equal Opportunity Employer.

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FACULTY POSITION**Experimental Condensed Matter/Materials Physics**

The Department of Physics in the School of Arts and Sciences announces a tenure-track faculty opening at the assistant professor level in Experimental Condensed Matter/Materials Physics. This hire is designed to enhance activities within the Physics Department and in a new Institute for Materials Science and Engineering, which will be formally commissioned in July 2013. The duties of the position will include, but are not limited to, teaching and advising students, conducting original research and publishing the results, and participating in departmental and university service. A PhD degree in a relevant field is required. Candidates are sought who have highly visible research achievements and who have a strong aptitude for teaching and mentoring students at the undergraduate and graduate levels. The appointment will begin Fall 2013. Information on our department can be found at <http://www.physics.wustl.edu>.

Applications should consist of the following: cover letter, current resume including publication record, statement of research interests and plans (up to five pages), statement of teaching interests and approach (up to three pages), and names and complete contact information (including email addresses) of three references. Application materials must be submitted electronically by email as a single file in editable (e.g., not password protected) PDF format to cmmesearch@physics.wustl.edu. For full consideration, applications should be submitted on or before **November 1, 2012**.

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

**ASSOCIATE PROFESSOR****Condensed Matter/Materials Research + English Education**

The College of Engineering Sciences, University of Tsukuba, is seeking a researcher for an appointment at the associate professor level from 1 April 2013 till 31 March 2017. The candidate should have experience in condensed matter and/or materials research in a broad sense including soft matter research, either theoretical or experimental. As part of the university's drive to further global integration, the successful candidate is also expected to contribute to English education and science & engineering education in English at the College of Engineering Sciences, the Graduate School of Pure and Applied Sciences, and through campus-wide programs. The candidate must have a doctorate degree, and English must be the candidate's first language.

Applications should be sent by **REGISTERED MAIL** to: Nobuyuki Sano, Dean of the College of Engineering Sciences, University of Tsukuba, Tsukuba, Ibaraki 305-8573, Japan, to arrive no later than **October 19, 2012**. See application details at http://www.tsukuba.ac.jp/update/jobs/pdf/h24boshu_matse_en.pdf.

Inquiries should be directed to T.Takemori at takemori@bk.tsukuba.ac.jp.

**PROJECT LEADER | ENERGY RESEARCH GROUP**

Center for Nanoscale Science and Technology
National Institute of Standards and Technology

The Center for Nanoscale Science and Technology (CNST) at the National Institute of Standards and Technology (NIST) in Gaithersburg, MD anticipates that it will soon have a vacancy for a Project Leader in the Energy Research Group. The CNST is a national user facility that supports nanotechnology from discovery to production by providing industry, academia, NIST, and other government agencies with access to world-class nanoscale measurement and fabrication methods and technology. The expected Project Leader position will require an exceptional scientist or engineer with a strong record of creativity and achievement in the synthesis and characterization of inorganic-based nanomaterials for applications in batteries, ultracapacitors, solid-state fuel cells, and related electrochemical energy conversion and storage technologies. The individual should have an extensive background in chemical and/or materials science or related disciplines, and a strong interest in developing new instrumentation and measurement methods for nanoscale characterization of the relevant chemical and physical phenomena. The individual must possess the leadership abilities required to build a thriving research program; mentor the research

activities of postdocs; have a successful record of interacting with multiple disciplines; be interested in contributing to ongoing projects within the CNST and NIST related to measurements of energy-related processes, materials, and devices; and be able to effectively communicate with a wide variety of audiences.

For additional information about the Center for Nanoscale Science and Technology, please visit www.nist.gov/cnst. Positions may be filled at any appropriate level (NIST pay band III-V, current salary \$60,989 to \$153,200). NIST offers a comprehensive benefits package that includes, in part, paid vacation, sick leave, holidays, life insurance, health benefits, on-site child care, and participation in the Federal Employees Retirement System.

Candidates must have a degree in chemical science, materials science, engineering, or physical science, or equivalent experience combined with education. A PhD degree is desirable. Send expressions of interest to CNSTjobs@nist.gov.



FACULTY POSITION IN ADVANCED MATERIALS

School of Materials Science and Engineering | College of Engineering, Architecture, and Technology
Oklahoma State University

The College of Engineering, Architecture and Technology (CEAT) at Oklahoma State University (OSU) seeks applicants and nominations for a tenure-track position at the assistant or associate professor level. The successful candidate will join an existing group of faculty in the Advanced Materials Program housed in the 123,000 square foot Helmerich Advanced Technology Research Center (HATRC) on the OSU campus in Tulsa. The vision for the HATRC is to be internationally recognized for advanced materials research, graduate education, and new enterprise development.

Applicants should have research interests which complement thrusts in advanced/nanomaterials useful for energy systems, biological/medical systems, and information technologies. There is a particular interest in candidates with background in materials for energy systems such as batteries, fuel cells, and solar energy conversion. Applicants should have an earned PhD degree in materials science and engineering or a related field. Research experience beyond doctoral studies is desirable. The successful candidate will be expected to develop an externally funded, internationally recognized research program in advanced materials; to excel in teaching at both the undergraduate and graduate levels; and to work collaboratively across the university and State.

Applications should include a letter of application; curriculum vitae; descriptions of two research projects with plans to secure external funding; a statement of teaching interests and philosophy; and the names and contact information of five references. Applications should be submitted electronically to advanced.materials@okstate.edu. Review of applications will begin immediately and continue until the position is filled. The target starting date is January 2013 if the successful candidate is available. More detailed information about the position and the HATRC may be obtained by visiting the College web site (<http://www.ceat.okstate.edu/>).

Oklahoma State University is an Equal Opportunity/Affirmative Action/E-Verify Employer.



JOHNS HOPKINS
UNIVERSITY

FACULTY POSITION Department of Materials Science and Engineering and Sheridan Libraries

The Department of Materials Science and Engineering at Johns Hopkins University invites applications for a junior-level, tenure-track faculty position preferably in computational biomaterials. Major areas of interest include cell mechanics, self-assembly, transport phenomena in biological systems, bio-inspired engineering, and tissue engineering. We will also consider outstanding candidates in experimental biomaterials. Preference will be given to applicants at the assistant professor level, but consideration will also be given to exceptionally qualified candidates at higher ranks.

Johns Hopkins University offers world-class research and teaching environment in biological and medical sciences with extensive opportunities for collaboration with the Johns Hopkins School of Medicine, the School of Public Health and the Krieger School of Arts and Sciences. Collaborative opportunities also exist with the Institute of Nanobiotechnology, the Whitaker Biomedical Engineering Institute, the Translational Tissue Engineering Center, the Johns Hopkins Engineering in Oncology Center, and the Center of Cancer Nanotechnology Excellence.

The successful candidate will be expected to establish an independent, internationally recognized research program and to contribute fully to the undergraduate and graduate educational missions of the department. Applicants should have a PhD degree or equivalent in materials science and engineering or a related field; postdoctoral experience is desirable. Candidates must have demonstrated ability to undertake independent, interdisciplinary, and collaborative research. Additional information about the department may be found at <http://materials.jhu.edu>.

All applications should be submitted electronically as a single PDF document to materials@jhu.edu. Applications should include a cover letter describing the principal expertise and accomplishments of the applicant, a complete resumé, statements of research and teaching interest, and the names and contact information for at least three references. For full consideration, applications should be received by **November 1, 2012**.

The Department is committed to building a diverse educational environment; women and underrepresented minorities are strongly encouraged to apply. The Johns Hopkins University is an EEO/AA Employer.