

Positions Available

FACULTY POSITIONS

Material Science and Engineering  
Naval Postgraduate School



The Departments of Mechanical and Astronautical Engineering, and Physics at the Naval Postgraduate School in Monterey, California ([www.nps.edu](http://www.nps.edu)), invite applications for two tenure-track faculty positions at the assistant professor level in the areas of Materials Science and Engineering and Micro-Electro-Mechanical-Systems (MEMS). Exceptional candidates may be considered for appointment at a more senior level. Individuals with backgrounds and interests broadly in advanced structural materials and/or in the areas of functional materials for nano/micro-systems, sensors devices, and related applications are especially encouraged to apply.

Between them, the Departments currently have more than 40 tenure-track and adjunct faculty, and related support staff and offer MS, Engineering, and PhD degrees. The Materials Science and Engineering faculty are affiliated with the Center for Materials Science & Engineering, which is equipped with various processing, x-ray, light- and electron-optical microscopy, clean room, and thermo-mechanical characterization facilities.

Candidates must have an earned PhD degree in Materials Science and Engineering, Physics, or a closely related discipline, and be capable of establishing an internationally recognized sponsored research program. The successful candidate will also be able to teach at the graduate level. Interested individuals should send an application letter with curriculum vitae and names of three references to [millsaps@nps.edu](mailto:millsaps@nps.edu), or by mail to:

Prof. Knox T. Millsaps, Code MAE/Mi  
Chairman, Mechanical and  
Astronautical Engineering  
Naval Postgraduate School  
Monterey, CA 93943-5100

The position will remain open until filled.

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Contact Mary E. Kaufold  
at 724-779-8312  
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UNIVERSITY AT ALBANY  
State University of New York

Faculty Positions

College of Nanoscale Science and Engineering (CNSE)

As part of its multi-year strategic plan, the College of Nanoscale Science and Engineering (CNSE) at the University at Albany-SUNY seeks applicants for multiple positions at the tenure-track Assistant, Associate and Full Professor levels. Recruitments of individual faculty or clusters of faculty with specific integrated expertise will be considered and are actively sought.

As the first of its kind in the world, CNSE was created to enable the discovery and dissemination of fundamental knowledge and new frontier scientific principles in the emerging interdisciplinary fields of nanotechnology, including nanoscience, nanoengineering, nanobiotechnology and nanoeconomics. CNSE is housed within a 750,000 square foot NanoFab megacomplex that includes the only integrated 200mm/300mm wafer facilities in the academic world. Over 85,000 sq. ft. of state-of-the-art, class 1 capable, cleanroom facilities house the most advanced 200mm/300mm wafer device fabrication and integration facilities. These are coupled with an optimized set of tailored design, assembly, and characterization capabilities for new frontier nanoscience, nanoengineering, nanoeconomics, and nanobiotechnology concepts. Opportunities are available in the following areas within the four cross-disciplinary constellations of CNSE:

- Molecular, optoelectronic, nanobiological, and spintronic materials, devices, and architectures;
- Nanosystems and nanosensors;
- Optical, extreme ultra-violet and e-beam nanolithography;
- 3D hyper-integration of devices and systems;
- Atomic scale materials characterization, analysis reliability, and metrology;
- Nanobiotechnology;
- Nanomedicine.

**Qualifications:** Candidates must have a Ph.D. in a relevant field of physics, chemistry, chemical engineering, materials science, materials engineering, biotechnology, or electrical engineering, from a college or university accredited by a USDOE or internationally recognized accrediting organization. They must possess demonstrated excellence in academic, scientific and scholarly activities and a proven track record in establishing vigorous externally funded research programs in one of the technical areas listed above. Postdoctoral experience is required, with a minimum of two to ten years experience in an aggressive academic, research and development environment, depending on the level of the position sought. Applicants must address in their application their ability to work with culturally diverse populations. Joint appointments in additional academic departments are possible and highly encouraged where appropriate. Candidates will be asked to submit a list of publications related to their research activities.

Please submit three letters of recommendation, summary of research plans and curriculum vitae to: Ms. Rhonda Haines, ATTN: Faculty Search, College of Nanoscale Science & Engineering, NanoFab East, 257 Fuller Road, Albany, NY 12203, [CNSEHR@uamail.albany.edu](mailto:CNSEHR@uamail.albany.edu)

POSTING #: PO9-17997

APPLICATION DEADLINE: Review of applications will begin April 6, 2009 and continue until all positions are filled.

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NASA POSTDOCTORAL FELLOWSHIPS

The NASA Postdoctoral Program (NPP) offers unique research opportunities to highly talented national and international scientists and engineers to engage in ongoing NASA research in space science, earth science, aeronautics, space operations, exploration systems, and astrobiology.

- Approximately 50 Fellowships awarded annually
- One-year appointments, renewable up to three years
- Annual stipends start at \$50,000, with supplements for specific degree fields and high cost-of-living areas
- Annual travel budget of \$8,000
- Financial assistance for relocation
- Financial supplement for health insurance purchased through the program
- Apply at <http://nasa.orau.org/postdoc>

Application Deadlines: March 1, July 1, and November 1

To obtain more information and to apply for this exciting opportunity, please visit the NPP Web site at <http://nasa.orau.org/postdoc>.



## Positions Available



### CHIEF SCIENTIST Engineering Sciences Directorate U.S. Army Research Office

The U.S. Army Research Office, Research Triangle Park, NC, is seeking a technical expert to serve as the Chief Scientist of the Engineering Sciences Directorate. The Chief Scientist advises the Engineering Sciences Directorate Director and other Army executive management on research opportunities in the general area of Engineering Science (Aerospace Engineering, Electrical Engineering, Material Sciences Engineering, Mechanical Engineering, and related fields) so as to accelerate the development and execution of key scientific opportunities and to enable successful technology transfer, and also conducts fundamental research in his or her specific technical area of the Engineering Sciences. The Chief Scientist works closely with Engineering Science Directorate Program Managers, and across all of the Army Research Laboratory, to identify both extramural and in-house basic research opportunities and to forecast research trends impacting progress in key Army emerging technologies. In these areas he/she will work with scientists from the U.S. Research Development and Engineering Command (RDECOM) laboratories and centers, other U.S. Army and Department of Defense research and development personnel, and scientists outside of the Department of Defense to catalyze scientists to form teams to address new Army-critical basic research challenges in the Engineering Sciences, and to transfer these research results into Army systems. Specific responsibilities of this position are: forecast U.S. Army engineering science research options that maximize the impact of the U.S. Army engineer-

ing science research program on the Army's mission; provide a critical focus on key Army issues impacted by engineering science research; and to promote the technology transfer of engineering science research into the technical community of the Army and industry in support of Army mission requirements.

Possession of a graduate degree, particularly at the doctoral level, is preferred or equivalent experience with substantial background and experience in related research. This position involves Aerospace Engineering, Electrical Engineering, Material Science Engineering, Mechanical Engineering, or related fields, and the demonstrated capability to conduct independent research as indicated by numerous published works in the engineering sciences area, or other indications of national research leadership. Candidates must have demonstrated the capability to work independently as a research scientist in engineering sciences and have substantial background and experience in leading research.

Applicants must be U.S. citizens, be able to obtain a top-secret clearance, and comply with provisions of the Ethics in Government Act. Interested individuals must apply electronically following instructions at [www.usajobs.opm.gov](http://www.usajobs.opm.gov), **Vacancy Announcement DA-ST-01-09**. Opening date is April 1, 2009 and closing date for this position will be **June 12, 2009**. If you have questions contact Dianne Hawkins at 301-394-5226.

Technische Universität München



The Physics Department of Technische Universität München invites applications for the position of a

#### Full Professorship (W 3) for Applied Physics in the field of Physics of Energy Conversion and Storage

to be filled by 1 April 2010.

We are looking for an outstanding scientist with experience in experimental research in the above field. Possible research directions include novel materials for energy conversion (e. g. thermoelectrics and photovoltaics) or fundamental investigations of processes for efficient energy storage, such as photocatalysis or electrochemical production of energy carriers. Close cooperation with the existing centers at TU München in surface physics, catalysis, biophysics, semiconductor physics, or the physics of neutrons is desired. Active participation in the teaching program of the Physics Department of the TU München will be required.

In addition to the professorship at the Physics Department, the successful applicant will be offered the position of a Director at the Bavarian Center for Applied Energy Research (Bayerisches Zentrum für Angewandte Energieforschung e.V., ZAE Bayern). ZAE Bayern with locations in Garching, Würzburg, and Erlangen focuses on applied research for future renewable energy sources.

Formal requirements for the professorship are a diploma from a university or university of applied sciences, teaching qualifications, and a PhD degree. Excellent research accomplishments, which may have been obtained also outside a university, are obligatory. Postdoctoral teaching experience or a formal lecturing qualification is required. Applicants should not have passed the age of 52 at the time of appointment. Under certain circumstances, however, this age limit can be removed.

Persons with disabilities will be given preference over other applicants with comparable qualifications.

The TUM is striving to increase the proportion of women in research and education. Female scientists, therefore, are especially encouraged to apply for this position. Applications with the usual supporting material (curriculum vitae/resumé, diploma, list of publications with selected reprints, research plan) should be submitted by **31. May 2009** to the

**Dean of the Physics Department, Technische Universität München, James-Frank-Strasse, 85748 Garching, Germany.**

[www.mrs.org](http://www.mrs.org)



#### SCIENTIFIC STAFF POSITION Center for Functional Nanomaterials Brookhaven National Laboratory

The Center for Functional Nanomaterials (CFN) at Brookhaven National Laboratory is seeking candidates for a Scientific Staff Position in the Soft Matter and Bionanomaterials Group at the Assistant or Associate level. Requires a PhD degree in physics, chemistry, or materials science, and several years of postdoctoral research experience. Expertise in synchrotron x-ray scattering methods (e.g., SAXS, WAXS, GISAXS, diffuse scattering, reflectivity), and related equipment and data analysis, and significant accomplishments in the study of soft matter or biophysical phenomena using those methods is also required.

Candidate should also have good communication and interpersonal skills, and an interest in working with external users of the CFN. The CFN is a user-oriented research center whose scientific program is focused on the understanding and exploitation of energy-related materials, including polymers and organic-inorganic hybrid nanomaterials. The successful candidate will carry out independent research primarily at a new x-ray beam line at BNL's National Synchrotron Light Source, will work with external users of the beam line, and will develop state-of-the-art methods to study soft/bionanomaterials using synchrotron radiation. The candidate's research program will be aligned with the CFN scientific thrusts and, especially, with the goals of the Soft Matter and Bionanomaterials Group. The level of the position will be based on the background and experience of the selected candidate. Under the direction of O. Gang, Center for Nanomaterials.

Please go to [www.bnl.gov](http://www.bnl.gov), click on **Jobs** and then **Search Job List** to apply for this position. Please apply to **Job ID #14776**.

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

## Positions Available



Universität Stuttgart

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

### Chair (W3) of Materials Synthesis

Applicants are expected to teach the entire area of Materials Synthesis at the undergraduate and graduate levels of the B.Sc./M.Sc. program "Materials Science", as well as other science and engineering courses at the University of Stuttgart. The successful candidate should complement and extend current faculty research activities in the field of Materials Science at the University and at the Max-Planck Institutes in Stuttgart. The Chemistry Department has a research focus on Materials and Functional Molecules, and the University as a whole is committed to research on New Materials. Candidates should have a strong record of excellence in research and success in obtaining external funding. Preferred research programs may include, but are not limited to, carbon-based materials, interface-controlled materials, as well as inorganic, bio-inorganic, ceramic materials and hybrid materials. The integration of molecular and nanoscopic components into functional, macroscopic devices is of particular interest.

### Chair (W3) of Materials Physics

Applicants are expected to teach the entire area of Materials Physics at the undergraduate and graduate levels of the B.Sc./M.Sc. program "Materials Science", as well as other science and engineering courses at the University of Stuttgart. The successful candidate should complement and extend current faculty research activities in the field of Materials Science at the University and at the Max-Planck Institutes in Stuttgart. The Chemistry Department has a research focus on Materials and Functional Molecules, and the University as a whole is committed to research on New Materials. Candidates should have a strong record of excellence in research and success in obtaining external funding. Preferred research programs may include, but are not limited to, physical properties of different material classes (for instance carbon-based, inorganic, bioorganic, metal-based materials and hybrid materials). The correlation of nanomechanics and electronics with the microstructure and function of macroscopic materials is of particular interest.

The Institute of Materials Science of the University of Stuttgart is located on the campus of the Max-Planck Institutes in Stuttgart. Access to the research facilities of these institutes, including the Centre for Electron Microscopy, will be defined in a cooperation agreement with the Max-Planck Institutes.

The requirements for employment listed in § 47 Baden-Württemberg university law apply; in case of first appointment as professor employment can be limited to three years.

Please submit your application to Prof. Dr. H.-J. Werner, Dekan der Fakultät Chemie, Universität Stuttgart, Pfaffenwaldring 55, 70569 Stuttgart, Germany. To ensure full consideration of your application, all documents (CV, academic certificates, short presentation of the scientific and teaching career, structured list of publications with up to three reprints, track record of research grants and a short statement on current and future research) should be received by **May 29<sup>th</sup>, 2009**.

Universität Stuttgart wishes to increase the share of female academic staff and especially welcomes applications from women. Handicapped persons will be given preference in case of equal qualification.



CARPENTER

### DIRECTOR, RESEARCH AND DEVELOPMENT Process Technology Group Carpenter Technology Corporation

Due to the growth of our business, Carpenter Technology Corporation, a global leader in the manufacture and distribution of specialty materials, seeks an innovative and aggressive leader for their R&D Process Technology Group headquartered in Reading, PA. The results-oriented professional we select must have world class experience in materials characterization including microstructure and both mechanical and physical metallurgy. The Director R&D will manage a department of 20 professionals that technically supports Carpenter on a global basis.

In this important role, you will:

- Evaluate and pilot next generation processing for mill operations.
- Lead the development of nondestructive evaluation technologies for coil, wire, bar, and forged bar products.
- Lead the development of control strategies for mill equipment.
- Ensure thorough characterization for new and existing alloys.
- Bring thought leadership in scientific development and innovation.
- Manage an organization involving the staffing, mentoring, and development of its multi-cultural personnel.
- Demonstrate strong business and financial acumen.
- Understand the use of technology as a competitive differentiator.
- Bring experience with utilizing outside technology sources.

A PhD degree in Metallurgical Engineering or related discipline and ten or more years of R&D experience including at least five years in a management role is required; a background in stainless steels or nickel-based alloys is desirable. Comprehensive knowledge of metallurgical principles, standards, methods, practices, and equipment required. Experience in the management and administration of a scientific facility is desirable. Additional requirements include excellent problem solving, decision-making, and strong prioritization skills. Self-motivation, self-discipline, and high energy are critical to your success.

We offer a competitive compensation package and challenging growth opportunities. Qualified candidates will be eligible for relocation assistance. For consideration, please send a cover letter along with your resume and salary requirements to:

Carpenter Technology Corporation  
Attn: Employment Building 137  
P.O. Box 14662; Reading, PA 19612-4662  
Email: [madasczik@cartech.com](mailto:madasczik@cartech.com)  
[www.cartech.com](http://www.cartech.com)

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### POSTDOCTORAL RESEARCH ASSOCIATES Institute for Shock Physics Washington State University

The Applied Sciences Laboratory of the Institute for Shock Physics at WSU has immediate openings for postdoctoral research associates to conduct research in the development of advanced metallic alloys and composites, and the synthesis and characterization of optical materials. For more information and application procedures, please see <http://www.asl.wsu.edu/site/careers.html>.

*EEO/AA/ADA*



## Positions Available


**Assistant Professor  
Multiscale Modeling**

The University at Buffalo (SUNY) seeks a tenure-track assistant professor in the broad area of multiscale modeling of the production, assembly, and properties of engineered nanoscale materials, structures, or devices. Appointment at higher rank is possible in exceptional cases.

**Example research areas of interest include, but are not limited to:** modeling energy transport in materials and devices for thermoelectric, photovoltaic, and photocatalytic applications; modeling of nanoscale devices in the regime of strong quantum effects; coarse-graining or multiscale modeling strategies that link quantum chemistry and atomistic molecular simulations to the nano, micro, and macro scales; and simulation of the transport of natural and human-made nanostructures in biological environments. This position is associated with the UB2020 Strategic Strength in Integrated Nanostructured Systems ([www.nano.buffalo.edu](http://www.nano.buffalo.edu)), one of eight areas of scholarly activity identified for strategic investment at UB.

The home department of the successful candidate will be determined by mutual agreement at the time of hiring, and could be Chemical and Biological Engineering, Mechanical and Aerospace Engineering, or Electrical Engineering. Applicants should submit a curriculum vita, statements of teaching and research plans, and names of three references via the UBJobs system, at [www.ubjobs.buffalo.edu](http://www.ubjobs.buffalo.edu), referencing posting number 0900080.

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## NanoEngineering Constellation

### College of Nanoscale Science and Engineering (CNSE)

As part of its multi-year strategic plan, the College of Nanoscale Science and Engineering (CNSE) of the University at Albany-SUNY invites applications for two tenure track positions at the assistant professor level in its NanoEngineering Constellation.

Opportunities are available for individuals with expertise in the areas of: (i) nanoelectronics devices and architectures; (ii) nanoscale engineering for energy and environmental applications; (iii) nanosystems engineering for materials, devices, and architectures; (iv) nanolithography, such as ultra-violet, e-beam, and/or molecular imprint lithography; (v) emerging nanomaterials and device engineering.

The CNSE NanoEngineering Constellation is a "think tank" of scholarly excellence in research and education that is designed to catalyze and encourage cross-disciplinary innovation and pedagogy, as driven by the fundamental intellectual underpinnings of nanotechnology. As part of its portfolio, the CNSE NanoEngineering Constellation is implementing a graduate (doctoral and Masters) degree in nanoengineering that provides a comprehensive education in the application of nanoscience principles to practical applications, such as the atomic scale design, manufacture, and operation of efficient and functional structures, machines, processes, and systems.

Candidates must have a Ph.D. in an appropriate concentration in materials engineering, chemical engineering, materials science, mechanical engineering, electrical engineering, physics, chemistry or equivalent from a college or university accredited by a USDOE or internationally recognized accrediting organization. The candidates must also have a strong publication record and must possess demonstrated excellence in academic, scientific and scholarly activities, and proven ability to establish vigorous externally funded research programs in one of the technical areas listed above. Applicants must address in their applications their abilities to work with and instruct a culturally diverse population. Joint appointments in the other CNSE constellations are possible and highly encouraged where appropriate. Candidates will be asked to submit a list of publications related to their research activities.

The College of Nanoscale Science and Engineering of the University at Albany-State University of New York is the first college in the world dedicated to the education, research, development and deployment of innovative nanoscience, nanoengineering, nanobioscience and nanoeconomics concepts. In May 2007, CNSE was ranked by *Small Times* magazine as the world's number one college for nanotechnology and microtechnology. CNSE's Albany NanoTech Complex is the most advanced research facility of its kind at any university in the world: a \$4.5 billion, 800,000-square-foot megaplex that attracts corporate partners from around the world and offers students a one-of-a-kind academic experience.

The UAAlbany NanoCollege houses the only fully-integrated, 300mm wafer, computer chip pilot prototyping and demonstration line within 65,000 square feet of Class 1 capable cleanrooms. More than 2,000 scientists, researchers, engineers, students, and faculty work on site at CNSE's Albany NanoTech Complex, from companies including IBM, AMD, SEMATECH, Toshiba, ASML, Applied Materials, Tokyo Electron, Vistec Lithography and Freescale, among many others. CNSE has more than 250 U.S. and worldwide partners, including many of the world's leading nanoelectronics companies and organizations. For more information, visit the CNSE Web site at <http://cnse.albany.edu>.

Please submit a minimum of three letters of recommendation, statement of research interests, statement of teaching interests, and curriculum vitae to: Ms. Christy Spadaro, 257 Fuller Rd., Albany, NY 12203, [CNSEHR@uamail.albany.edu](mailto:CNSEHR@uamail.albany.edu).

Posting #: PO9-18233

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### POSTDOCTORAL POSITION

#### Materials Sciences and Engineering Ames Laboratory

The Division of Materials Sciences and Engineering in the Ames Laboratory is seeking a PhD scientist with expertise in computer simulation and a background in either materials science or condensed matter physics for a postdoctoral position to perform molecular dynamics simulation of solidification and liquid-glass transition processes. The candidate is required to be experienced in running MD codes using parallel processors (experience with LAMMPS is desirable). Applications will be accepted until position is filled.

Please send a cover letter detailing specific instrument experience, curriculum vita, and have at least two letters of reference sent to Dr. Mikhail Mendeleev, 207 Metals Development Bldg., Division of Materials Science and Engineering, Ames Laboratory (US DOE), Ames, IA 50011.

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Positions Available

**Research Group Leader positions at the International Iberian Nanotechnology Laboratory (INL)**

The International Iberian Nanotechnology Laboratory, a recently formed international research organization registered in the UN, is seeking strongly motivated Research Group Leaders, both at Senior level (Principal Investigator, Associate or Full professor level), or at Junior level (tenured track, assistant professor level), to join its new facility in Braga, North of Portugal ([www.inl.int](http://www.inl.int)). INL central lab facilities are presently being built (€100 M investment for an expected research community of around 400 people at full operation), and will open in late 2009.

INL is recruiting scientists in the following research areas:

- **Nanomedicine:** drug delivery systems, molecular diagnosis systems, cell therapy and tissue engineering.
- **Nanotechnology:** applied to food industry, food safety and environment control.
- **Nanomanipulation:** molecular devices, using biomolecules as building blocks for nanodevices.
- **Nanoelectronics:** Nanofluidics, CNTs, molecular electronics, spintronics, nanophotonics, NEMS, and other nanotechnologies used to build nanodevices and system platforms to support the previous research topics.

Candidates with outstanding CVs in these and related areas will be considered. INL welcomes applicants with previous industrial laboratory experience, and an interdisciplinary research track. INL will offer an exciting, and highly competitive research environment. The remuneration scheme is in line with those offered by other international organizations (IO). Group leaders will be offered substantial starting funds (both for capital equipment and research personnel) to help them jump start their research activities.

**Senior Level:**  
Principal Investigator, Associate or Full Professor Level

**Junior Level:**  
Tenured track positions, Assistant Professor Level



INL facilities will open in late 2009, and are located in Braga (150,000 inhabitants with a high quality and attractive living environment), 30min drive from Porto International Sá Caneiro Airport, 30min drive from the North Atlantic coast, and about 45min drive to the Portuguese-Spanish border and Geres National Park.

Interested applicants should submit a cover letter, curriculum vitae, research statement, and two reference letters (Junior level candidates) to our recruitment website [www.inl.int](http://www.inl.int)

**INL** INTERNATIONAL IBERIAN  
NANOTECHNOLOGY  
LABORATORY

[www.inl.int](http://www.inl.int)

**Electron Microscopists Staff Scientists**



*Berkeley Lab's National Center for Electron Microscopy*

The National Center for Electron Microscopy (NCEM) at Berkeley Lab is a DOE scientific user facility for electron beam microcharacterization of materials. NCEM conducts fundamental research on the relationship between structure and properties of materials by developing and utilizing techniques for materials imaging and analysis with electrons. The facility offers a unique array of advanced electron microscopes and leads the TEAM project, a collaborative effort to develop the next generation electron microscope. <http://ncem.lbl.gov/>

NCEM invites applications for two highly specialized Staff Scientist positions:

**Analytical Electron Microscopist (#22694)**

The Analytical Microscopist will lead a world-class original research program in electron beam microanalysis and be responsible for the operation, user program, and further development of state-of-the-art analytical electron microscopes. The candidate will initiate collaborative research projects, support users, conceive novel experiments, develop new techniques, and apply them to advanced materials research. Exceptional expertise in high resolution STEM/TEM imaging, fine-probe microanalysis, and materials research is essential. Experience with aberration correcting electron optics is desirable.

**TEAM Microscopist (#22695)**

The TEAM Microscopist will lead an innovative high-level research program using advanced techniques of electron scattering with the aberration-corrected TEAM microscope. The candidate will optimize the instrument to exploit its unique capabilities, instigate productive new collaborations, and work with scientific users to refine microscopy techniques and their application to significant materials problems. The position requires outstanding expertise in aberration-corrected STEM/TEM imaging and spectroscopy, and a strong background in nanoscale materials research.

Learn more about these opportunities and apply at [jobs.lbl.gov](http://jobs.lbl.gov) (enter 22694 or 22695 in the key word search field).

Berkeley Lab is an Affirmative Action/Equal Opportunity Employer committed to the development of a safe and diverse workforce. [www.lbl.gov](http://www.lbl.gov)

**FACULTY POSITIONS**  
College of Engineering and Computing  
University of South Carolina



The College of Engineering and Computing at the University of South Carolina invites applications for two tenure-track faculty members to be part of an existing cluster of faculty with research and teaching expertise in the area of Solid Oxide Fuel Cells (SOFCs). Applicants with technical expertise that relates to SOFC science, engineering, and technology are welcome. Areas of special interests include, but are not limited to synthetic and natural fuels; fuel reforming; high temperature electrolysis (of water and carbon dioxide); infiltration, ceramic processing, and manufacturing; multi-scale and multi-physics modeling; solid-state electrochemistry and electrochemical characterization; surface science and interface modeling; high temperature corrosion; CO<sub>2</sub> sequestration technologies; energy system-level modeling and optimization; and nano-structure design of heterogeneous functional material systems.

Duties are to develop a strong educational and externally funded research program in collaboration with the Director of the SOFC Fuel Cell Program ([Reifsnider@cec.sc.edu](mailto:Reifsnider@cec.sc.edu)). Candidates should submit an application letter, professional vita, future research plans, teaching interests, and names of three references to: SOFC Search Committee, Mechanical Engineering Department, University of South Carolina, Columbia, SC 29208; or email to [odonnemc@engr.sc.edu](mailto:odonnemc@engr.sc.edu). Review of applications begins immediately until the position is filled.

*The University of South Carolina is an Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.*