

Positions Available



Materials Sciences Division Director



Berkeley Lab is seeking an internationally recognized scientific leader to serve as Division Director for the Materials Sciences Division. This critical role provides scientific leadership to the division, and maintains the quality of research through management of existing programs and development of new programs in materials sciences and engineering, condensed matter experimental and theoretical physics, materials chemistry, and biomolecular materials.

The Division Director is expected to build collaborative programs with UC Berkeley and other research institutions, and act as the division's chief spokesperson in interactions with the U.S. Department of Energy (DOE). The position has oversight responsibility for two major DOE national user facilities, the Molecular Foundry and the National Center for Electron Microscopy, as well as for two centers, the Center for X-ray Optics and the Helios Solar Energy Research Center. With a staff of over 700 employees, faculty, students, and visiting scientists, the Division Director has full responsibility for all areas of management within the division, including operations, finance, human resources, and environmental health and safety.

Applicants should possess a distinguished record of scientific accomplishments relevant to the division's research, and demonstrated experience with scientific management and development. Experience building and leading collaborations among multidisciplinary teams is also essential.

Learn more about the position and apply at <http://jobs.lbl.gov>. Select "Search" and enter **21719** in the key word search field.

Berkeley Lab is an Affirmative Action/Equal Opportunity Employer committed to the development of a diverse workforce.

*Berkeley Lab's
Molecular Foundry-
Founded
March 24, 2006.*

Berkeley Lab is a world leader in science and engineering research, with 11 Nobel Prize recipients, and 60 present members of the National Academy of Sciences. Berkeley Lab conducts unclassified research across a wide range of scientific disciplines and hosts four national user facilities.
www.lbl.gov



ELECTROCHEMIST/SURFACE SCIENTIST Sandia National Laboratories

Sandia National Laboratories in Livermore, CA, seeks an experimental electrochemist/surface scientist. As a principal investigator, the scientist will investigate fundamental physics and chemistry relevant to solid-oxide fuel cells and electrolyzers; lead the development of new electrode materials; and perform studies at Lawrence Berkeley National Lab's Advanced Light Source facility measuring surface species, binding, and oxidation states via xps.

REQUIRED: PhD degree in chemistry, physics, or related discipline; experience with electrochemical devices and measurement techniques; original research in experimental electrochemistry; excellent communication skills.

DESIRED: Experience working at a synchrotron light source; experience in solid-oxide electrochemistry, surface-science techniques, and modern x-ray and optical diagnostics.

BENEFITS: Medical, dental, vision, 401(k) with company match, three weeks vacation, flexible work schedules with alternate Fridays off, fitness facilities.

See full job description and apply ONLINE at <http://public.ca.sandia.gov/casite/careers/>, job #60212. U.S. citizenship is required to obtain Department of Energy security clearance.

EO/AAE

Imperial College London

Department of Materials

RCUK British Energy Research Fellowship Nuclear Fuel Modelling

Salary range: £40,050 - £44,730 per annum

Imperial College is ranked the fifth best university in the world (Times Higher QS World University Rankings 2007)

British Energy is a FTSE 100 company, producing around one-sixth of the nation's electricity.

A RCUK Research Fellowship is available at Imperial College London for a suitably qualified candidate in the area of nuclear fuels modelling above the nanoscale applied to nuclear fuels technology. You will focus on, but are not confined to, nuclear fuel and cladding behaviour under irradiation and at high temperatures. Each year you will spend time at British Energy and thereby help to promote the links between British Energy and Imperial College London. We expect you to become involved with the current development of nuclear power research within Imperial College, through the cross-departmental Centre for Nuclear Engineering. Activities involving other Universities are also encouraged.

Information about the RCUK Fellowship scheme, including eligibility criteria, is available at <http://www.rcuk.ac.uk/acfellow/>

Candidates should note that this scheme is only open to researchers who are currently on temporary or fixed-term appointments.

Candidates with appropriate experience and a recognised research track record are encouraged to apply. You will be required to fulfil Office of Civil Nuclear Security (OCNS) vetting requirements.

Further enquiries can be directed to Professor Robin Grimes, e-mail: r.grimes@imperial.ac.uk

The RCUK fellowship is for a period of five years and leads to an open-ended academic post in the Department of Materials and is available from 1 September 2008.

Application forms can be downloaded from: <http://www3.imperial.ac.uk/employment/applicationformacademic>

A job description and an application form can also be obtained from Darakshan Khan, e-mail: d.khan@imperial.ac.uk tel. +44 (0) 20 7594 6775, Imperial College London, Departments of Materials and Earth Science and Engineering, South Kensington campus, London SW7 2AZ, to whom five copies of the completed applications (with curriculum vitae and the names and contact details of two referees) should be sent. Please quote ref: **RCUKModelling** on all correspondence.

Closing date: 30 June 2008.

Valuing diversity and committed to equality of opportunity

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EMPLOYMENT OPPORTUNITIES Division of Materials Research National Science Foundation

The Division of Materials Research at the National Science Foundation is pleased to announce the availability of multiple openings for permanent and temporary Program Officers for the Office of Special Programs & the Instrumentation for Materials Research Program (see <http://www.nsf.gov/div/index.jsp?div=DMR> for programs and areas). These interesting and rewarding positions provide salary in the range \$98,033 to \$152,775 commensurate with experience.

Applicants must have a PhD degree in the Physical Sciences or Engineering or a closely related field, demonstrated expertise in one or more areas covered by the Division of Materials Research, plus six or more years of successful research, research administration, and/or managerial experience pertinent to the position. The appointees are expected to work with the materials research community to broaden the diversity of participants in NSF programs, and to integrate research and education in materials research.

Appointment to temporary positions may be through a one or two year Visiting Scientist appointment, a Federal Temporary appointment. Alternatively, these positions may be filled under the terms of the Intergovernmental Personnel Act (IPA). The NSF provides generous support to allow the holders to maintain active research programs at their home institutions.

Applicants for temporary assignments should refer to vacancy numbers E20080085 or E20080086-Rotator found at http://nsf.gov/about/career_opps. You must apply by **July 15, 2008**.

Applicants for permanent positions should follow the application instructions for vacancy numbers E20080097 or E20080098 on our web page http://nsf.gov/about/career_opps. You must apply by **July 15, 2008**.

NSF is an Equal Opportunity Employer.

SENIOR SCIENTIST (PRINCIPAL SCIENTIST) NEI Corporation

NEI Corporation, a leading developer and manufacturer of nano-materials for diverse industrial applications, is seeking a highly technical individual with a broad range of experience, particularly in Polymer and/or Sol-gel based coatings.

Job Description:

The primary job responsibilities for this position will be new product development through industrial joint development programs and contract research and development. The individual's responsibility will be to augment existing product development programs at NEI Corporation in the areas of corrosion protection, and abrasion resistant and functional coatings.

Skills Needed:

- Strong background in the chemistry of polymer (epoxy, silicone) coatings
- Hands-on experience with sol-gel processing
- Chemistry of particle surface modification
- Materials characterization skills
- Applications and business development experience
- Grant writing and presentation skills

Education and Experience Requirements:

Candidates meeting the requirements for this position may come from a wide variety of technical fields such as Polymer Chemistry or Materials Science and Engineering. A PhD or MS degree with three to five years of chemical or materials industry experience is preferred for this position.

Application Process:

To apply for this position please send resume to Ms. Kathleen Finnerty at kfinnerty@neicorporation.com. This position is open until filled.

Equal Employment Opportunity/Affirmative Action Employer, M/F/D/V

POSTDOCTORAL RESEARCH ASSOCIATES Institute for Shock Physics Washington State University

The Institute for Shock Physics at WSU has immediate openings for postdoctoral research associates to conduct research on the dynamic mechanical response of materials including metals, metallic glasses, ceramics, and composites. For more information and application procedures, access <http://www.shock.wsu.edu/opportunities.html>.

EEO/AA/ADA



ELECTRON MICROSCOPIST Advanced Materials Processing and Analysis Center Materials Characterization Facility University of Central Florida

Materials Characterization Facility (MCF, www.ampac.ucf.edu/mcf) of Advanced Materials Processing and Analysis Center (AMPAC, www.ampac.ucf.edu) at the University of Central Florida is seeking to hire a scientist/engineer to manage and operate its electron microscopes with an emphasis on transmission and scanning electron microscopy. The University of Central Florida is a major metropolitan research university located in Orlando, FL, with over 48,000 students. MCF is an 8,000-sq.ft. multiuser facility with two TEMs, two SEMs, two SIMS, EPMA, FIB, AES, XPS, RBS, MicroRaman, AFM/STM, LSCM, and complete specimen preparation laboratory. The SEM and TEM laboratory currently comprises a JEOL 6400 FESEM, Hitachi 3500N SEM, JEOL 1011B TEM, FEI Tecnai F30 TEM/STEM, and associated sample preparation equipment including FEI 200TEM FIB. MCF is a vibrant multiuser facility that provides microscope and spectroscope facilities to a wide range of users from academia, industry, and national laboratories around the world. In FY2007, 125 UCF internal users and 26 external users including 20 private companies worked at and with MCF for their materials characterization needs.

Applicants with an advanced degree in related sciences/engineering with at least two years operation and/or maintenance experience are preferred. We are particularly interested in individuals who have a strong record in using TEM/STEM to solve scientific and engineering problems. The position will involve management and operation of instruments on a day-to-day basis, support and training of users, instrument maintenance, and instrument development. The applicant should have strong interpersonal as well as oral and written communication skills.

Review of candidates will begin immediately, and will continue until the position is filled. Electronically submit curriculum vitae, a summary of expertise and accomplishments, and contact information of references to: Prof. Yongho Sohn, ysohn@mail.ucf.edu, Associate Director for MCF, University of Central Florida, AMPAC, PO Box 162455, Orlando, FL 32816.

The University of Central Florida is an affirmative action/equal opportunity employer. As a member of the Florida State University System, all application materials and selection procedures are available for public review.

Abstract Deadline: June 24, 2008
For details see page 586

King Abdullah University of Science and Technology (KAUST)

Faculty Openings in Materials

King Abdullah University of Science and Technology (KAUST) is being established in Saudi Arabia as an international graduate-level research University dedicated to inspiring a new age of scientific achievement that will benefit the region and the world. As an independent and merit-based institution and one of the best endowed universities in the world, KAUST intends to become a major new contributor to the global network of collaborative research. It will enable researchers from around the globe to work together to solve challenging scientific and technological problems. The admission of students, the appointment, promotion and retention of faculty and staff and all the educational, administrative and other activities of the University shall be conducted on the basis of equality, without regard to race, colour, religion or gender.

KAUST is located on the Red Sea at Thuwal (80km north of Jeddah). Opening in September 2009, KAUST welcomes exceptional researchers, faculty and students from around the world. To be competitive, KAUST will offer very attractive base salaries and a wide range of benefits. Further information about KAUST can be found at <http://www.kaust.edu.sa/>

KAUST invites applications for faculty position at all ranks (Assistant, Associate or Full Professor) in Materials Science and Engineering including, but by no means limited to, areas such as:

- Carbon Capture
- Hydrogen Rich Fuels
- Materials for High Stress Environments
- Structural Ceramics, including Fuel Cell Materials
- Functional Thin Films
- Glasses
- Materials for Clean Power Generation
- Metals
- Modelling
- Nanotechnology
- Biomaterials

High priority will be given to the overall originality and promise of the candidate's work rather than the candidate's sub-area of specialisation within Materials Science and Engineering. Nevertheless, KAUST is particularly interested in applicants whose research has applications in the fields of composite materials and membranes.

An earned PhD in Materials Science or a related science or engineering discipline, evidence of the ability to pursue a programme of research and a strong commitment to graduate teaching are required. A successful candidate will be expected to teach courses at the graduate level and to build and lead a team of graduate students in Master's and PhD research.

Applications, including a curriculum vitae, brief statements of research and teaching interests and the names and contact details of at least 3 referees, should be sent to the Search Committee by electronic mail to kaust.materials@imperial.ac.uk Please note that the Search Committee may also appoint additional referees at its discretion. The review of applications will begin immediately and applicants are strongly encouraged to submit applications as soon as possible; however, applications will continue to be accepted until December 2009, or until all 10 available positions have been filled.

In 2008 and 2009, as part of an Academic Excellence Alliance agreement between KAUST and Imperial College London, the KAUST faculty search will be conducted by a committee consisting of professors from the Faculty of Engineering at Imperial College London. This committee will select the top applicants and nominate them for faculty positions at KAUST. However, KAUST will be responsible for actual recruiting decisions, appointment offers and explanations of employment benefits. The recruited faculty will be employed by KAUST, not by Imperial. Faculty members recruited by KAUST before September 2009 will be hosted in the Department of Materials at Imperial College London as Academic Visitors until KAUST opens in September 2009. At Imperial, these Academic Visitors will conduct research with Imperial staff and may occasionally teach courses.

Enquiries and applications: kaust.materials@imperial.ac.uk

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**BIOTECH AND CHEMICAL
IP ATTORNEYS**
**Sterne, Kessler, Goldstein &
Fox P.L.L.C.**

Sterne, Kessler, Goldstein & Fox P.L.L.C. has immediate opportunities for Chemical and Biotech patent attorneys. Successful candidates must possess a Bachelor's degree in Chemistry, Biology, or the related engineering fields. An advanced degree in the above listed fields is preferred.

We are looking for motivated candidates with excellent credentials and at least two years of experience. Experience in the Nanotech or Materials areas is a plus.

Position offers the chance for major responsibilities. Candidates who seek to break out of a team and have the opportunity for leadership are encouraged to apply. Position entails direct client contact and all phases of patent practice. This will include preparation, prosecution, licensing, client counseling, and litigation. Competitive salary commensurate with experience and excellent benefits package are offered.

Please use **Reference Number SKGFBMRS31708** when applying for this position. Visit our website at www.skgf.com or contact Tacie Steidel, Recruitment Coordinator, Sterne, Kessler, Goldstein & Fox P.L.L.C., by e-mail at legalcareers@skgf.com or 202-371-2600.

STAFF SCIENTIST/SENIOR SCIENTIST
NEI Corporation

NEI Corporation, a leading developer and manufacturer of nano-materials for diverse industrial applications, is seeking a highly technical individual with experience in cathode and anode materials used in rechargeable Li-ion batteries.

Job Description:

The primary job responsibilities for this position will be new product development through industrial joint development programs and contract research and development. The individual's responsibility will be to augment existing product development programs at NEI Corporation in the area of advanced electrode materials for rechargeable Li-ion batteries.

Skills Needed:

- Strong background in solid state chemistry of electrode materials
- Hands-on experience with materials synthesis and processing
- Materials characterization skills
- Good background in electrochemistry
- Applications and business development experience
- Grant writing and presentation skills

Education and Experience Requirements:

Candidates meeting the requirements for this position may come from a wide variety of technical fields such as Electrochemistry or Materials Science and Engineering with either a PhD or MS degree. Two to five years experience with chemical or materials industry experience is preferred for this position.

Application Process:

To apply for this position please send resume to Ms. Kathleen Finnerty at kfinnerty@neicorporation.com. This position is open until filled.

Equal Employment Opportunity/Affirmative Action Employer, M/F/D/V

FACULTY POSITIONS
Materials Engineering
New Mexico State University

The College of Engineering at New Mexico State University (NMSU) is recruiting three tenure-track assistant or associate professors in the general area of materials engineering. Please go to the web links: <http://chemeng.nmsu.edu/>; <http://me.nmsu.edu/>; or <http://www.nmsu.edu/~personel/postings/faculty/> (2008002690, 2008002691, and 2008002754), to get details on position requirements and application procedures. Applications are accepted through email to faculty_search@nmsu.edu.

NMSU is an Equal Opportunity/Affirmative Action Employer.



POSTDOCTORAL POSITION
Thin Film Photovoltaics
Arizona State University

The National Renewable Energy Labs (NREL) has a collaboration with Arizona State University (ASU) to investigate II-IV-V based thin films as a new material to make tandem thin film photovoltaic devices. ASU invites applications for a postdoctoral position who will be stationed full time at the NREL facility in Golden, Colorado, and work in NREL's National Center for Photovoltaics, Thin Films Group. Salary will be commensurate with the NREL postdoc scale (60 to 65 K).

Initial work will involve synthesis and characterization of II-IV-V chalcopyrites, particularly with regard to their photoreponse and its connection to film microstructure. The successful candidate will carry out research at NREL, in close collaboration with both the NREL team and the ASU effort.

Required: A doctorate in electrical engineering, applied physics, or a closely related field is required along with appropriate research background and publications list.

The National Renewable Energy Laboratory (NREL), located in the foothills of the Rocky Mountains in Golden, Colorado, is the nation's primary laboratory for research, development, and deployment of renewable energy and energy efficiency technologies. NREL is an equal opportunity employer committed to diversity and a drug-free workplace.

Arizona State University, a Research One Institution, has approximately 40,000 undergraduate and 10,000 graduate students at the Tempe campus. Phoenix is the nation's fifth largest city and companies such as Honeywell, Intel, Motorola, Freescale, Medtronic, and General Dynamics contribute to the high technology base that enriches the ASU research environment. ASU has an outstanding infrastructure in nanofabrication and modeling, and world class facilities and expertise in materials and device characterization.

Qualified candidates should e-mail a letter of application, their resume with publication list, and contact information for three individuals who can provide recommendations, to Prof. Mark van Schilfgaarde, at Mark.vanSchilfgaarde@asu.edu. Please note that Arizona State University requires a background check for all potential hires.

Arizona State University is an EO/AA employer and encourages intellectual and cultural diversity.

www.mrs.org