

Positions Available

UNIVERSITY OF
NORTH TEXAS™DIRECTOR
Center for Advanced Research and Technology
University of North Texas

The University of North Texas (UNT) seeks innovative and aggressive leadership for its recently formed Center for Advanced Research and Technology or CART. CART is a university-wide, multidisciplinary center with an emphasis in the science and engineering disciplines and with a concentration in materials characterization. The instrumentation available to CART researchers is quite extensive and includes a 3D atom probe, an analytical high resolution TEM, a FIB/FESEM, an environmental SEM, two XRD systems, an AFM, and a new Raman system with plans to acquire a new XPS system. The CART Director will report directly to the Provost and Vice President for Academic Affairs and will work intimately with the provost, the Vice President for Research and Technology Transfer, and faculty associated with the center.

Qualifications and Duties: Applicants for the CART Director must have considerable experience in writing and executing research proposals and marketing research programs to both government agencies and industry, particularly in the areas of science and engineering that are dominant in CART. Ideally, the applicants will have (1) served in leadership roles in either government or industrial research agencies, (2) possess a knowledge of government agency (especially DoD) and industry funding mechanisms, and (3) be familiar with agency and industry resource allocations. Ideally, this person will be willing to develop new strategic relationships as needed to bring potential funding sources to CART researchers. Applicants should be willing and capable of fostering inter-institutional and interdisciplinary relationships to facilitate the ability of researchers to build cross-disciplinary research teams geared towards identified funding opportunities.

The University of North Texas is an ADA/AA/EOE that encourages applications from minority group members and women.

Candidates should have a PhD degree in a technical discipline although outstanding candidates with an MS degree and strong record of accomplishments in the areas mentioned above will also be considered.

Salary: Salary and benefits will be commensurate with the qualifications of the successful candidate. The position is envisioned to be non-tenure track although qualified individuals seeking a tenured position will also be considered.

UNT is the fourth largest university in Texas and is located in Denton, Texas, 35 miles north of the Dallas/Fort Worth metropolitan area. There are approximately 33,000 students registered in 93 bachelors, 111 masters, and 50 doctoral degree programs. This is a vibrant area of over six million people, with significant economic growth, strong professional employment opportunities for spouses/partners, and excellent schools. The majority of the CART facilities and office space are co-located in the College of Engineering Research Park building with a total of 550K square feet. The Research Park boasts of 290 acres of land available for R&D enterprises of which CART and the College of Engineering are considered integral parts.

Applicants should submit current curriculum vitae, synopsis of relevant experience, previous funding history, and names of at least three references to: CART Director Search Committee, University of North Texas, PO Box 305310, Denton, Texas 76203-5310 (or electronically to CartSearch@eng.unt.edu). Review of applications will begin on **July 1, 2007** and continue until the position is filled.



Associate Laboratory Director



Oak Ridge National Laboratory (ORNL) is seeking an Associate Laboratory Director (ALD) for Neutron Sciences. The successful candidate will lead an organization of approximately 600 staff and \$250M in annual funding for neutron science research in support of Department of Energy (DOE) missions. We are seeking an individual with demonstrated ability to manage large and complex research and development organizations, develop and implement strategic objectives, and provide national leadership on neutron science and technology issues. The position requires outstanding leadership, communications, strategic planning, management, and interpersonal skills. Broad experience in helping to develop and implement strategies at the national and DOE program levels is highly desirable.

The ALD is a member of the Laboratory senior management team, reporting to the ORNL Director. The position has line and program responsibility for the Neutron Sciences Directorate including developing and implementing a strategic vision, providing technical and management direction of the safe, reliable, and cost effective operation of facilities, and ensuring scientific and technical quality.

The ALD will provide the leadership to establish ORNL as the world's foremost center for neutron sciences, delivering unprecedented capabilities for understanding the structure and dynamics of materials. With the world's highest flux reactor-based neutron source - the High Flux Isotope Reactor (HFIR) and the world's most intense pulsed accelerator-based neutron source - the Spallation Neutron Source (SNS); Oak Ridge National Laboratory provides neutron scattering capabilities unavailable anywhere else in the world. The ALD will insure that SNS and HFIR will together comprise the world's leading neutron scattering capability with both pulsed and continuous beams as measured by instrument performance, scientific output, user satisfaction, predictability and availability of operations, and facility upgrades and expansions. The ALD will also cultivate a strong in-house research program, linked to other ORNL research areas and the broader research community, as a key element of a successful scientific user facility.

To learn more and apply, go to <http://jobs.ornl.gov> and select position number 2432. Please submit your resume, references, and publication list in one file. We only accept Microsoft Word documents.

ORNL is a multi-program research facility managed by UT-Battelle, LLC for the Department of Energy. UT-Battelle, LLC is an equal opportunity employer and committed to building and sustaining a culturally diverse workplace.

www.ornl.gov

RESEARCH SCIENTIST AND
POSTDOCTORAL FELLOW POSITIONS
Department of Geological Sciences
University of Michigan

The Department of Geological Sciences at the University of Michigan invites applications for a research scientist and postdoctoral fellow positions in the areas of mineralogy and materials science for the study of:

- structure and chemistry of uranium and transuranium phases
- radiation effects in minerals and ceramics

The candidates should have extensive experience with a variety of microbeam analytical techniques, such as TEM, FIB/SEM, EMPA, SEM, and/or experience with a variety of spectroscopic techniques, such as EXAFS/XANES and Raman. Experience with ion beam irradiation and implantation techniques is preferred. Applicants for the research scientist position should have relevant, postdoctoral experience.

Please submit a resume with the names and contact information for three references to:

Professor Rod Ewing
Geological Sciences
University of Michigan
Room 2534 CC Little Bldg.
1100 N. University
Ann Arbor, MI 48109-1005
E-mail: rodewing@umich.edu

The University of Michigan is a non-discriminatory/affirmative action employer.

Positions Available



HIGH-PERFORMANCE MATERIALS

R & D GROUP LEADERS

Ceramics, Polymers and Abrasives

Saint-Gobain is a leading worldwide producer of abrasives, building materials, high-performance plastics, insulation, flat glass, glass containers, piping, reinforcements, and industrial ceramics. In the U.S. and Canada, Saint-Gobain employs over 23,000 people, and has approximately 180 manufacturing locations. Its total U.S. and Canada sales in 2005 were \$7.4 billion. Products include: electro-fused ceramics, high performance refractories, advanced ceramics, silicon carbide, specialty crystals, chemical process products, and high performance plastics.

Saint-Gobain is seeking to identify LEADERS who have a track record of bringing out the best in people, and welcome the opportunity to work closely with stakeholders.

We are growing and it is an exciting time to become part of the long term vision for High Performance Materials Research & Development for Saint-Gobain! Our ideal candidates will closely match the profiles below and currently be a Manager, Supervisor, Group Leader, or similar leadership role with the ability to accomplish great things with great people.

◆ SURFACE PREPARATION TECHNOLOGIES, MACHINING AND POLISHING, GROUP LEADER—CP3695

Conducts research and development on surface preparation technologies (machining, grinding, lapping, polishing/CMP), thereby building technical depth in this area. Leads the team towards integrating scientific knowledge of surface preparation technologies (includes various material removal processes, machines, instrumentation, controls, abrasive products, operational parameters) with knowledge of 'entire system' to develop deeper understanding (build phenomenological models) of various finishing processes in conjunction with economics. Integrates the right blend of experimentation and modeling with tangible technology progress while meeting the needs of the product development groups.

Background/Skills

Skills associated with a Graduate Degree (preferably PhD) in Mechanical Engineering, Materials Science, or related engineering discipline. Seven to ten years of industrial R&D experience in surface preparation technologies (machining, grinding, lapping, etc.) with emphasis on brittle materials and abrasive product development. Demonstrated credentials with technology leadership and long term developments in this technical area are essential. Demonstrated credentials with finishing process development, OEM coordination, cost modeling, scientific level test methodologies to large scale automation, etc. are critical. Leadership abilities and customer centeredness are a must. Well organized with the ability to communicate effectively (written and oral) with staff, other senior R&D members, and business management. Travel within U.S. and international may be required.

◆ CERAMIC PROCESSING GROUP LEADER—CP3963

Conducts research and development on ceramic processing, thereby building technical depth in the topical area. Technology development and extension. Leads the team towards integrating scientific knowledge of ceramics (structure, chemistry, properties, and performance) with knowledge of equipment and process to develop deeper understanding (build phenomenological models) of ceramic behavior during processing. Develop new processes to support business activities. Develop group characterization and processing tools: thermal analysis, physical measurements, extrusion, injection molding, tape casting, gel casting, mixing, milling, crushing, rheology, etc.

Background/Skills

Skills associated with graduate degree (preferably PhD) in Materials Science, Physical Science, or related engineering discipline. Seven to ten years of industrial R&D experience in ceramic processing with at least four years of technical supervision. Ability to lead effectively and be customer centered. Well organized with excellent written and oral communications skills. Work successfully with staff, R&D business units, and management. Function effectively in a demanding environment and situations. Builds technical depth in ceramic processing, including technology development and extension. Some international travel required.

◆ POLYMER CHARACTERIZATION & TESTING LAB, GROUP LEADER/RA—CP3811

Provide technical and administrative leadership for a research and development group of 10 to 18 researchers at the PhD, MS, BS, and technician levels that is focused on providing high quality analytical data and research on the chemistry, rheology, and physical properties of polymers and polymer composites (LC-MS, FTIR, GC-MS, TMA, DSC, TGA, GPC, HPLC, DMA Capillary Rheometry, rotational rheometry, melt index, etc.).

Background/Skills

This position requires skills associated with a PhD degree in polymer, organic, or analytical chemistry or equivalent and at least ten years experience including knowledge and experience with polymer materials, polymer composites, organic analytical chemistry, analytical instrumentation, etc. A demonstrated ability to solve complex problems and work in a team-oriented environment are also required. Attention to detail, customer focus, and follow-through are critically important to the incumbent's success. Good oral and written communication skills are necessary.

◆ BONDED ABRASIVES R&D MANAGER—CP3866

Works with Bonded management and research teams to develop consensus and support for new project plans. Ensures that the projects supporting the Bonded business sector are effective, timely, and on budget. Acts as facilitator for the researchers in the group by removing obstacles and providing support. Coordinates technology initiatives across multiple research and development groups (internal and external) that are aimed at creating patent positions as well as developing and launching new products or manufacturing processes common to multiple business units.

Background/Skills

Preferred candidates will have an advanced degree (PhD) in ceramic engineering, glass science, inorganic chemistry, material science, or related field, with seven to ten years experience in product and process development for inorganic composite materials. Technology resulting from this research will be communicated and implemented to manufacturing operations worldwide, therefore excellent written and oral communication skills are a must. Must have experience managing engineers and technicians. Candidate will be expected to manage a number of projects simultaneously. Ability to travel internationally is required.

◆ TO APPLY

For complete job descriptions, benefit information, and online applications go to www.saint-gobain.com/us/career/index.html. When you arrive at this site, search for positions above by scrolling through "Ref Code" and locate the CPxxx number. We offer our employees an excellent benefit package, including relocation, competitive starting salary with an outstanding bonus potential, and a superb scientific team work environment.

To learn more about High Performance Materials go to: <http://www.saint-gobain.com/us/businesses/index.html>

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

Positions Available



MANAGER
Electronic Design and
Molecular Modeling Lab
GE Global Research
John F. Welch Technology Centre
Bangalore, India

Job Description:

Key leadership role for a group of 15-20 scientists and engineers conducting leading edge research and design of micro and nano scale Electronic, Optoelectronic, and Mechanical devices including multi physics modeling and analysis at the micro and nano scale. Lab Manager will interface closely with the other global MNST/GRC labs and especially with our key business partners (GE Health Care, GE Industrial, and GE Infrastructure) and their customers.

Responsibilities:

A central focus for the Lab Manager will be Customer Centricity, including: 1) anticipate and actively address the needs of both internal business partners and external customers; 2) build long-term strategic partnerships with key business associates; and 3) act as an advocate to ensure customers' needs are met.

In addition, the Lab Manager will:

- Champion new innovation and assure technical project execution, including project risk assessment and mitigation planning with global, multifunctional teams
- Create business impact through execution of high quality research
- Mentor, coach, and develop team members
- Set and drive the technology vision, focus, and roadmap for the EDMM laboratory
- Work with other MNST Lab Managers and GTL to shape and evolve the global technology roadmap
- Work with GRC Business Program Managers and operating business technologists to understand future technology needs for client businesses, and to plan and execute research programs on time and within budget
- Recruit top talent to develop world-class technical leadership
- Effectively use informal and formal communication channels

Qualifications:

The candidate should have a PhD degree in Physics, Material Science and Engineering, Electrical Engineering, or a related technology field, with at least five years of relevant experience in MEMS/MOEMS, Device Design, Optoelectronic Devices, Solid State Physics, and/or Quantum Modeling. The candidate will be a well-respected and established technical expert with a strong analytical ability and broad multi-physics understanding of Electronic Devices on the micro and nano scale. It is strongly desired to have had previous leadership positions with a proven track record of building, engaging, and growing research or engineering teams. Successful candidates must possess:

- Strong technical and people leadership skills
- Communication, influencing, listening, and coaching skills
- Strong organizational skills
- The ability to build and energize teams in high-impact technology
- The ability and desire to lead in a fast moving, global technology environment
- Self confidence, self-awareness, and have a good presence

Please apply at www.gecareers.com to Job #593669.

GE is an equal opportunity employer.



RESEARCH SCIENTIST POSITIONS Institute of High Performance Computing Singapore

The Institute of High Performance Computing (IHPC), a member of the Agency for Science, Technology and Research (A*STAR) in Singapore, invites applications for eight available positions for research scientists in the field of theoretical and computational mechanics and materials science. These positions are in conjunction with the A*STAR-sponsored Visiting Investigatorship Program (VIP) led by Prof. Huajian Gao from Brown University who is the Principle Investigator.

Successful candidates will be members of frontier projects on the studies of thin films, nanocrystalline materials, self-assembly of nanoscale materials, and hierarchical and multifunctional materials. They will also have the opportunity to work at Brown University as visiting scholars for an extended period according to research needs.

Specific qualifications are: 1) a PhD or equivalent degree in Mechanics, Materials Science, Physics, or a related discipline, 2) demonstrated ability to conduct scholarly research, as evidenced by a thesis or publications in top-tier international journals, and 3) the ability to make clear and effective oral and written presentations of scientific and technical information. Candidates with expertise in theoretical work, and modeling and computation of mechanical behaviors and properties of materials, are specifically encouraged to apply.

IHPC provides an intellectually stimulating environment, with key research projects in the domain of computational science and engineering (CSE), for modeling, simulation, and visualization of complex scientific and engineering problems across a wide span of industries, including chemical, manufacturing, electronics, and precision engineering. For more information about IHPC, please visit our website at www.ihpc.a-star.edu.sg.

Our remuneration is globally competitive, with benefits such as comprehensive medical insurance, vacation leave, dental, and flexible benefits packages. An application should include the following items:

- A complete professional CV, including educational background, experience, and a list of publications.
- Names, complete mailing addresses, telephone numbers, and e-mail addresses of three individuals who could provide letters of reference, if requested; unsolicited letters of reference should not be sent.
- Reprints of published papers (or manuscripts).
- A brief statement of research interests (no more than one page).

Please e-mail or fax your applications to the contact address provided below.

Dr. Chun Lu and Prof. Huajian Gao
 Institute of High Performance Computing
 1 Science Park Road, #01-01 The Capricorn
 Singapore Science Park II, Singapore 117528
 Email: luchun@ihpc.a-star.edu.sg; gaohj@ihpc.a-star.edu.sg
 Fax: 65-67760972



Positions Available

Space Institute



FACULTY POSITIONS

**Center for Laser Applications
University of Tennessee
Space Institute**

The University of Tennessee Space Institute, Tullahoma, Tennessee, Center for Laser Applications (CLA), invites applications for three full time faculty positions.

Applicants should submit their curriculum vita and the names of three references to:

**Dr. William Hofmeister
Materials Science and
Engineering Program
The University of Tennessee
Space Institute
411 B.H. Goethert Parkway
Tullahoma, TN 37388
Phone: 931-393-7466
E-mail: whofmeis@utsi.edu**

Please reference the position title and number when corresponding about these positions.

For more information about UT Space Institute, visit our website at

<http://www.utsi.edu/>

UT Space Institute is an EEO/AA/Title VI/Title IX/Section 504/ADA/ADEA institution in the provision of its education and employment programs and services. Women and minorities are encouraged to apply.



Applications are invited for the following positions:

Materials Science and Engineering • Associate/Full Professor • Search 1131

One vacancy, regular, full-time, tenure-track, faculty appointment at the rank of Associate/Full Professor

The ranks of Professor or Associate Professor require significant academic and/or industrial experience, an outstanding record of documented on-going research, evidence of significant research funding, and teaching experience commensurate with rank. Candidates are required to have an earned doctorate in Mechanical Engineering, Materials Science and Engineering, Chemical Engineering, or Physics. The successful candidate will be expected to:

1. Possess strong potential for obtaining external research funding and a clear vision of emerging opportunities for research funding.
2. Have a record of scholarly publications.
3. Work in a highly interdisciplinary learning and teaching atmosphere.

The CLA is a Tennessee Higher Education Commission Center of Excellence focused on materials modification, single-molecule spectroscopy, and combustion and plasma diagnostics. We seek an applicant with a background in ceramic and dielectric materials (photonics, thermal barrier coatings, optical and amorphous materials) and laser material interactions to work with CLA, UT Knoxville, and Oak Ridge National Laboratory, to develop programs in nanoscale materials modification in support of current activities and to develop new research areas.

Materials Science and Engineering • Research Assistant/Associate Professor • Search 1132

One vacancy, regular, full-time, research faculty appointment at the rank of Assistant/Associate Professor

Candidates are required to have an earned doctorate in Mechanical Engineering, Materials Science and Engineering, Chemical Engineering, or Physics. The successful candidate will be expected to:

1. Demonstrate strong potential for obtaining external research funding and a clear vision of emerging opportunities for research funding.
2. Have a record of scholarly publications.
3. Work in a highly interdisciplinary learning and teaching atmosphere.

The CLA is a Tennessee Higher Education Commission Center of Excellence focused on materials engineering and modification, on single-molecule spectroscopy, and on combustion and plasma diagnostics. We seek an applicant with a background in nanomaterials, microfluidics, biomaterials, nanofabrication of devices as well as laser material interactions who can develop programs in nanoscale materials modification to support current CLA activities and to develop new research in this and related areas. The successful candidate is also expected to initiate, conduct, and/or support collaborative research and development programs in these areas with UTSI, UT Knoxville, and Oak Ridge National Laboratory teams. The initial appointment will be for a period of three years and may be renewed subject to the candidate's record of performance and the availability of external funding. This position could also transition to a tenure-track position based on the candidate's performance, on academic needs of the Institute, and on the availability of funding.

Materials Science and Engineering • Research Assistant/Associate Professor • Search 1133

One vacancy, regular, full-time, research faculty appointment at the rank of Assistant/Associate Professor

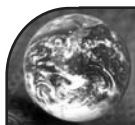
Candidates are required to have an earned doctorate in Mechanical Engineering, Materials Science and Engineering, Chemical Engineering, Chemistry, or Physics. The successful candidate will be expected to:

1. Demonstrate strong potential for obtaining external research funding and a clear vision of emerging opportunities for research funding.
2. Have a record of scholarly publications.
3. Work in a highly interdisciplinary learning and teaching atmosphere.

The CLA is a Tennessee Higher Education Commission Center of Excellence focused on materials engineering and modification, on single-molecule spectroscopy, and on combustion and plasma diagnostics. We seek an applicant with a background in carbon based materials; such as carbon nanotubes, diamond-like carbon films, carbon fibers, and/or diamond materials for energy, electronic or structural applications. We are particularly interested in laser-based fabrication and synthesis of carbon materials on the nanoscale. The successful candidate is also expected to initiate, conduct, and/or support collaborative research and development programs in these areas with UTSI, UT Knoxville, and Oak Ridge National Laboratory teams. The initial appointment will be for a period of three years and may be renewed subject to the candidate's record of performance and the availability of external funding. This position could also transition to a tenure-track position based on the candidate's performance, on academic needs of the Institute, and on the availability of funding.

The University of Tennessee Space Institute offers significant opportunities for collaborative research and teaching across disciplines such as intellectual property commercialization, materials science, aerospace, and industrial engineering. The compensation package for these positions is highly competitive.

Positions Available



Why not
change the world?

DIRECTOR***Center for Integrated Electronics***

Rensselaer Polytechnic Institute seeks outstanding candidates for the position of Director of the Center for Integrated Electronics (CIE). Candidates must have earned a Ph.D. in an appropriate field, with accomplishments in developing and managing research programs that are commensurate with a faculty appointment at the level of full professor. Research accomplishments would be in one or more areas of microelectronics and photonics, microsystems architectures and design, devices, and materials and processing. Individuals should have demonstrated successful leadership positions in academia, industry and/or government agencies.

The CIE Director will be expected to provide strategic vision for the technical directions of the research and the management guidance for the faculty, staff and students. Of additional importance will be extensive efforts in the development of major research proposals and programs, collaboration with industry, and interactions with partnering universities and federal laboratories.

Rensselaer is a private, coeducational, technological university consisting of Schools of Architecture, Engineering, Humanities & Social Science, Management & Technology, and Science. Rensselaer's CIE is a major research center with approximately \$7 million of annual research expenditures. Its facilities include a 5700 square foot Class 100 clean room which supports wafer processing with micrometer and nanometer lithography capabilities on semiconductor wafer sizes from small pieces up to 8 inches.

Applicants should submit a cover letter, resume, description of their interests and experience, and a statement summarizing their vision of future research opportunities in the field of micro- and nano-electronics, and microsystems.

Applications and nominations will be accepted until the position is filled. Materials (and inquiries) should be directed to:

**Dr. T. Paul Chow, Professor of Electrical,
Computer, and Systems Engineering
and Chair of Search Committee**
chowt@rpi.edu



Rensselaer

We welcome candidates who will bring diverse intellectual, geographical, gender and ethnic perspectives to Rensselaer's work and campus communities. Rensselaer Polytechnic Institute is an Affirmative Action/Equal Opportunity Employer.

**RESEARCH ASSOCIATE
Hydrogen Storage Materials
Wildcat Discovery Technologies, Inc.**

Wildcat Discovery Technologies is a startup stage company in San Diego focused on the discovery of energy-related, solid-state materials. Wildcat utilizes high throughput synthesis and characterization technologies, and is initially targeting materials for hydrogen storage.

Wildcat is seeking a highly motivated Research Associate to join our Materials Synthesis Department. The successful candidate will work closely with the department head, and have the opportunity to rapidly become a key member of the Wildcat team. Primary responsibilities include: 1) Synthesis and characterization of novel materials for hydrogen storage; 2) Development and testing of prototype high-throughput technologies; and 3) Interfacing with the Wildcat Engineering department.

The successful candidate will have a BSc/MSc in Chemistry, Materials Science, Chemical Engineering, or Applied Physics with research experience in industrial or academic labs. Wildcat provides a unique and challenging opportunity in an exciting new field. Wildcat offers excellent compensation and benefits in a highly interactive, multidisciplinary environment.

Please submit your resume and any supporting documents to chemistry@wildcatdiscovery.com.

**RESEARCH PHYSICIST
Chemistry Division
Naval Research Laboratory**

The Naval Research Laboratory (NRL) Chemistry Division has an immediate opening for a Research Physicist with expertise in the theory of the electronic, vibrational, and transport properties of graphene nanostrips. The applicant should be a recognized expert on the theory of these carbon-based nanostructures, as evidenced by publications in peer-reviewed physics and chemistry journals and presentations at conferences.

Specific requirements include: (i) demonstrated ability to perform theoretical research on graphene nanostrips involving electronic, vibrational, and transport properties together with demonstrated ability to perform theoretical research on carbon nanotubes; (ii) demonstrated ability to develop and apply Green function approaches for calculation of the transport properties of graphene nanostrips; (iii) knowledge of quantum information processing; and (iv) skill in writing and modifying C and Fortran codes using parallel libraries together with knowledge of Linux system administration.

This is an NP-1310-03 position with a salary range of \$55,192 to \$103,409 per annum based on qualifications, experience, and market consideration. Position requires a degree in Physics or related degree that included 24 semester hours in physics OR an equivalent combination of education and experience. A PhD or equivalent degree in Materials Science is highly desirable. Also highly desirable is experience with atomic force and scanning tunneling microscopes.

Announcement opens 1 July 2007 and closes 30 July 2007. Applicants are encouraged to visit the websites. For those applicants with status (i.e., current government employees on a competitive career or career-conditional appointment, reinstatement eligibles, Veterans Employment Opportunities Act eligibles, etc.), apply to Vacancy Announcement Number NE7-NP1310-03-K9625776-I. For applicants without status, apply to Vacancy Announcement Number NE7-1310-03NRL0329-DE.

Follow instructions regarding "How to Apply" for each at <https://chart.donhr.navy.mil> and click on search for jobs. Type in Announcement Number and press enter to obtain qualification information and instructions on how to apply.

*The Naval Research Laboratory is an
Equal Opportunity Employer.*

PLACE YOUR AD TODAY!

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

Positions Available



The Molecular Foundry at Lawrence Berkeley National Laboratory (LBNL) is a user facility charged with providing support to research in Nanoscience underway in academic, government, and industrial laboratories around the world. The Foundry provides users with instruments, techniques, and collaborators to enhance their studies of the synthesis, characterization, and theory of nanoscale materials. Its focus is the multidisciplinary development and understanding of both "soft" (biological and polymeric) and "hard" (inorganic and micro-fabricated) nanostructured building blocks and the integration of those building blocks into complex functional assemblies. <http://foundry.lbl.gov>

Theoretical Staff Scientists

The Foundry's Theory Facility provides theoretical support to aid and complement experiments, guide the development of new principles, and predict new behavior and applications. Selected interest areas include nanoelectronics, nanomechanics, energy-related science, and novel nanoscale materials.

The Facility has two opportunities at the term level for a Scientist to perform original research in two broad areas: **Mechanical, Dynamical, and Thermal Properties at the Nanoscale (#20413)**, with focus on the use of atomistic molecular dynamics and force-fields for the study of mechanical, dynamical, and thermal phenomena in nanostructures; and **Nanoscale Soft Matter (#20414)**, with focus on the use of statistical mechanical models, molecular dynamics, and/or mesoscale and coarse-grained simulations for the study of (e.g.) polymers, biomolecules, and hybrid supramolecular assemblies at the nanoscale.

Please apply online at <http://jobs.lbl.gov>. Select "Search" and enter the corresponding job # in the search field. In addition, please send the following application materials to the corresponding email, Theory20413@erom2.lbl.gov or Theory20414@erom2.lbl.gov. Include a resume or CV, summary of research interests, research plan in the form of one or more research proposals, and a list of at least five references. www.lbl.gov AA/EE0

Associate Laboratory Director for Basic Energy Sciences

Brookhaven National Laboratory (BNL) is seeking candidates for the position of Associate Laboratory Director of its Basic Energy Science Directorate (BES). This Directorate is one of five science Directorates at the Laboratory and contains both major research and facility sectors, including Chemical Sciences, Condensed Matter Physics & Materials Sciences and the Center for Functional Nanomaterials (CFN) user research facility. The annual budget of the Directorate is about \$50 M with a staff of over 160.

The Associate Laboratory Director (ALD) is responsible for the scientific and managerial leadership of the Directorate. He/she reports to the Laboratory Director. The successful candidate must have a Ph.D. degree and a distinguished research career in the physical sciences accompanied by proven experience in the management of a mid-sized research effort. BNL is interested in candidates who will develop internationally leading programs that are aligned with the mission of the Department of Energy, and who will maintain and enhance a world-class scientific and technical staff. The ALD is the primary contact with BNL's programs and facility sponsors, principally the U.S. Department of Energy.

The ALD participates at the Director's level in the Laboratory-wide planning for new programs and user facilities and has line responsibility for safe and environmentally sound operation of his/her program. Recent areas of BES scientific focus include nanoscience, catalysis, strongly correlated and complex systems, interface of life and physical sciences, and photo/radiation chemistry & chemical dynamics. New programs are developing at the Laboratory level in renewable energy and energy efficiency. In the facilities sector, the focus will be on start up and transition to operations of the Center for Functional Nanomaterials as a major research and user facility with scientific thrusts in nanocatalysis, biological & soft nanomaterials and electronic materials, among others. The BES Directorate has, and will continue to play an important role in the development and use of BNL's National Synchrotron Light Source II. Emphasis will also be applied to coupling BES programs to those in the other BNL Directorates, including the Life Sciences and Energy, Environment and National Security.

BNL is a multi-disciplinary laboratory engaged in a broad scope of world-class basic and applied research in a highly stimulating and competitive science environment. It is managed by Brookhaven Science Associates under contract with the U.S. Department of Energy. Applications should be sent electronically to hempfling@bnl.gov, or by regular mail to William Hempfling, Human Resources Division, Brookhaven National Laboratory, Bldg. 400B, PO Box 5000, Upton, NY 11973-5000. BNL welcomes diversity and encourages applications from all qualified individuals.



www.bnl.gov

Research Scientist

College of Nanoscale Science and Engineering

The College of Nanoscale Science and Engineering is seeking applicants for the position of Research Scientist. The position will conduct research in the area of nanoscience. Primary responsibilities will include the design and characterization of quantum confined semiconductor structures; design, processing and electrical and optical testing of semiconductor devices such as optoelectronic devices and transistors; research project management such as planning, coordination, scheduling and implementation; and the supervision of student experimental research. Qualified candidates will possess a PhD in relevant field of Physics or Materials Science from a college or university accredited by US Department of Education or internationally recognized accrediting organization. In addition, candidates are expected to have a minimum of 5 years experience in growth and processing of semiconductor optoelectronic devices. 2 or more years of optoelectronic research project management experience is preferred. Excellent organization and computer skills along with the ability to multitask are essential. Strong communication skill is required. Candidates must address their abilities to work with culturally diverse populations. Employment is through The Research Foundation and is contingent upon continued funding. Salary is dependent upon experience. The Research Foundation of SUNY offers a competitive salary and exceptional fringe benefit package. For more information go to: <http://cnse.albany.edu> Please submit a resume in confidence to: **Human Resources, The College of Nanoscale Science & Engineering, 255 Fuller Rd., Albany, NY 12203.**

The Research Foundation of SUNY is an EEO/AA/IRCA/ADA employer.



THE RESEARCH FOUNDATION
The State University of New York
University at Albany

Positions Available



Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

Assistant Professor (Tenure Track) for Functional Ceramic Materials

ETH Zurich invites applications for a faculty position on the assistant professor level in Functional Ceramic Materials. The successful candidate will have several years of experience in processing and characterization of ceramic properties, and their integration into complex systems of materials that display useful responses to stimuli that could be, e.g., electrical, optical, magnetic, chemical, biological or mechanical in nature. Industrial experience is considered a positive asset. It is expected that close collaborative relationships with other Department members (both theoretical and experimental) will be established.

The candidate will be expected to teach students of Materials Science at all levels, as well as to offer specialized courses for other disciplines (e.g. Physics, Chemistry, Electrical Engineering, Bio-engineering). Courses at Master level may be taught in English.

Assistant professorships have been established to promote the careers of younger scientists. The initial appointment is for four years with the possibility of renewal for an additional two-year period and promotion to a permanent position.

Please submit your application together with a curriculum vitae and a list of publications to the **President of ETH Zurich, Raemistrasse 101, CH-8092 Zurich, no later than August 31, 2007**. With a view toward increasing the number of female professors, ETH Zurich specifically encourages female candidates to apply.



MATERIAL SCIENTIST/CHEMIST Silanna Pty. Ltd.

Silanna Pty. Ltd. is a recently formed start-up located in Brisbane (Queensland, Australia) with access to substantial on-going private equity funding. Our goal is to develop innovative opto-electronic technologies for data processing and data storage applications.

We are looking for applications from chemists and material scientists who feel thoroughly at home working on technology development. The ideal candidates must have a proven ability to develop IP and technology in the industry or relevant scientific research organizations.

Silanna is offering attractive packages and will assist with relocation and visa if required.

This candidate would ideally have 3–5 years working experience (or equivalent R&D experience) in the synthesis, preparation, and characterisation of metal nanoparticles. The key accountabilities of the role are to:

- Conduct/supervise the synthesis and characterization of new hybrid storage materials to achieve Silanna's commercial goals;
- Contribute to the overall design of storage systems by interacting closely with system designers, electrical, and optical engineers;
- Stay abreast of current material trends in data storage.

The specific skills and experience we are looking for are:

- PhD degree in organic chemistry or material science (or equivalent);
- In-depth understanding of nanoparticle synthesis from chemical reactions in solution;
- Hands-on experience in the synthesis, coating, and functionalisation of nanoparticles;
- Familiarity with standard nanoparticle characterisation techniques;
- Experience in modern materials chemistry techniques;
- Ability to research independently and capture IP;
- Excellent communication skills.

Exposure to the following fields would also be welcome:

- Dispersion of nanoparticles in organic semiconductors thin-films;
- Electrical properties or properties of organic and inorganic materials;
- Gas phase deposition techniques.

If these positions appeal to you, please send your cover letter along with CV and contact information as PDF-document to jobs@silanna.com.



Environmental Energy Technologies Division Director

Lawrence Berkeley National Laboratory (LBNL) is seeking an internationally renowned scientific leader to direct the Environmental Energy Technologies Division (EETD). EETD performs research on energy technologies, energy efficiency, indoor environmental quality, atmospheric science, and climate change. The Division has substantial effort in energy analysis, including both demand and end-use efficiency. EETD research is also coupled with Laboratory-wide initiatives on new and secure energy sources for the U.S. For more information about EETD's scientific programs, visit their website at <http://eetd.lbl.gov>.

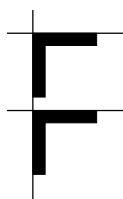
The EETD Director plays a critical role in providing scientific leadership for the Division. The Director will develop new programs that address the national needs in the energy and environmental areas, and act as chief spokesperson for the Division in interactions with the U.S. Department of Energy (DOE) and other government agencies. The candidate should possess a distinguished record of scientific accomplishment in a discipline relevant to the Division's research, and have demonstrated experience with scientific management and development. Proven experience in building and leading collaborations among multidisciplinary teams is required. The Director is expected to build collaborative programs with UC Berkeley and other research institutions. In addition, the Director has final responsibility for all areas of management within the Division, including operations, environmental health and safety, administration, budget, and human resources.

The EETD is a multidisciplinary organization with approximately 425 scientists, engineers, technical, and administrative personnel, including participating faculty and students from the nearby UC Berkeley campus. The Division has an annual budget of approximately \$50M. EETD's research is primarily funded by the DOE Office of Energy Efficiency and Renewable Energy, with significant support from other DOE offices, other federal agencies, and the State of California.

For a complete job description, or to apply online, visit <http://jobs.lbl.gov>, select "Search Jobs", and enter 20349 in the keyword search field. Enter "MRS Bulletin" as your source. For more information about LBNL and its programs, visit www.lbl.gov. AA/EOE

Lawrence Berkeley National Laboratory (LBNL) is located in the San Francisco Bay Area on a 200-acre site in the hills above the University of California's Berkeley campus and is managed by the University. A leader in science and engineering research for more than 75 years, Berkeley Lab is the oldest of the U.S. Department of Energy's National Laboratories.

Positions Available



**Forschungszentrum Karlsruhe
in der Helmholtz-Gemeinschaft**

The Forschungszentrum Karlsruhe GmbH, member of the Helmholtz Society, is one of the leading research centers of Europe.

Our **Institute for Nanotechnology (Institut für Nanotechnologie, INT)** invites applications for the position of a

Scientist (f/m)

place of work: Darmstadt

You will manufacture and characterize complex nanostructures in the form of nanoparticles and thin films at the joint laboratory of the Forschungszentrum Karlsruhe and the Technical University of Darmstadt. Your fundamental work will focus on determining the physical, mechanical, and/or chemical properties and their correlation to the nanostructure. Furthermore, you will develop own research projects and represent them adequately in the public. Your tasks will also include the acquisition of projects funded by third parties as well as the support of ph. D. students. It will be possible to qualify as a professor. The contract is for a period of 3 years.

Applicants should have a university degree in materials sciences, physics or chemistry, completed by a doctorate. Several years of professional experience in the use of chemical/physical methods for the production of nanostructures or nanostructured materials are required. In addition, you are experienced in the execution of scientific projects funded by third parties and possess know-how in modern materials science characterization techniques (X-ray diffraction, TEM). Work experience abroad and experience in lecturing would be ideal.

We offer a complex scientific task that is associated with a high degree of work autonomy, a variety of training options, and the use of latest technical equipment.

In line with our policy of equal opportunities, applications from qualified women are particularly engaged.

For further information please contact Prof. Dr. Hahn, phone +(49)7247 82-6350.

Kindly send your complete application (covering letter, curriculum vitae, list of publications, university degree, letters of reference,) to Mrs. Hase, HPS, making explicit reference to the Vacancy No. 205/2007 or apply online <http://jobs.fzk.de>.

**Forschungszentrum Karlsruhe GmbH
Central Department for Personnel and Social Matters
P.O. Box 3640, 76021 Karlsruhe
Germany**

Internet: www.fzk.de

**POSTDOCTORAL RESEARCH ASSOCIATE
Institute of Shock Physics
Washington State University**

WSU's Institute of Shock Physics has an immediate opening for a postdoctoral research associate to enhance static high-pressure research. A PhD degree in condensed matter physics, chemistry, or related field required. Experience in materials characterization using laser spectroscopy (Raman, fluorescence) or synchrotron x-ray diffraction is essential.

Visit www.shock.wsu.edu/opportunities.html for application procedures.

EEO/AA/ADA

www.mrs.org



**University of
Connecticut**

School of Engineering

**CONNECTICUT GLOBAL
FUEL CELL CENTER**

DIRECTOR

The Connecticut Global Fuel Cell Center (CGFCC), in the School of Engineering at the University of Connecticut, invites applications and/or nominations for the position of Director. Reporting to the Dean of Engineering, the Director will oversee operations of the Center. Established in 2001 with academic, government and private funding, the CGFCC seeks to become the world's premier academic resource for advanced fuel cell research, development and technology.

It is anticipated that the Director will have discretionary authority to expend the proceeds from endowment funds to advance his/her research, educational, and outreach activities in the field. Salary and benefits will be commensurate with experience. Areas of technical expertise include, but are not limited to: Fuel Processing, Catalysis, Electrocatalysis, Electrochemistry/Electro-chemical Engineering, Fuel Cell Power Plant Systems Analysis, Transport Phenomena, Heat and Mass Exchange, Materials and Polymers, Systems Design Modeling and Manufacturing, and Fuel Cell Applications.

Applicants must have a Ph.D. in engineering or a related physical science discipline, as well as a distinguished record of research in fuel cell technology. Academic appointment will be at the rank of full professor aligned with one of the School's five departments. Qualified applicants will have an established record in generating significant external funds, nurturing strong academic/industry partnerships, marketing and promotion, and facilitating team-based visionary research and development in the area of fuel cell technology and application. It is anticipated that candidates will be Fellows in a relevant professional society and have an established national/international reputation in their research areas. Please visit www.engr.uconn.edu/ctfuelcell and www.engr.uconn.edu.

Review of applications will begin immediately, and will continue until the position is filled. Send applications, including a CV and the names and contact information of at least five references, to: **Chair, CGFCC Director Search Committee, Office of the Dean, School of Engineering, 261 Glenbrook Road, Unit 2237, Storrs, CT 06269-2237.**

The University of Connecticut is an Equal Opportunity, Affirmative Action employer.