

## Positions Available



**Sandia  
National  
Laboratories**

### **POSTDOC POSITION Nanowire Integration Sandia National Laboratories**

Sandia National Laboratories is one of the country's largest research and engineering laboratories, employing 8,500 people at major facilities in Albuquerque, New Mexico and Livermore, California. We make enduring contributions to secure our society against high consequence terrorist threats and national incidents through effective use of science, technology, and systems solutions. Please visit our website at [www.sandia.gov](http://www.sandia.gov). We are searching for PostDocs in Nanowire Integration for the Center for Integrated Nanotechnologies (CINT) Department at the Albuquerque facility. The salary is \$80,000 per year. A benefit and relocation package is available.

This position is part of the Nanowire Integration Focus Area, a collaborative group of CINT scientists working to understand synthesis and growth, optical properties, thermal and electrical transport through nanowires, and interfaces. We use a variety of characterization techniques; including, TEM, scanning probes, Raman microscopy, nanomanipulation, and ultra-fast laser spectroscopy. We are also developing standardized chip-based platforms on which to integrate nanowires for thermal, electrical, and mechanical characterization. The successful candidate's project will bridge the interests and capabilities of several CINT scientists in a coherent effort to advance important enabling science in the Department of Energy mission areas.

A PhD degree in physics, materials science, physical chemistry, applied physics, electrical engineering, or a related scientific or engineering discipline is required. Experimental research experience with semiconductor devices, electrical transport, and/or optics, and micro/nano fabrication experience using a clean room facility are desirables.

Please apply online at <http://www.sandia.gov>, under Employment/Career Opportunities/ Sandia internet Careers site, reference Job Requisition Number 62182. U.S. citizenship normally required.

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\*Please visit us at the Exhibit, April 14-16, during the 2009 MRS Spring Meeting in San Francisco.

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**Positions Available**

**FACULTY POSITIONS**

**Materials Science and Engineering Program  
Texas State University-San Marcos**



**Texas State University** is aggressively developing a new Materials Science and Engineering program with federal, state, and university funding based on collaborations among the Departments of Physics, Chemistry & Biochemistry, Biology, Technology, and the Ingram School of Engineering. We invite applications for two open positions to be immediately filled by outstanding candidates with active and internationally recognized interdisciplinary research efforts in advanced materials for emerging technologies. Rank, tenure status, and home department are negotiable based on qualifications. The successful applicant(s) will establish a vigorous externally funded research program, supervise graduate students, collaborate with other faculty, and be committed to teaching at the undergraduate and graduate levels. We have received a State of Texas Emerging Technology Fund Research Superiority Acquisition Award that will provide highly competitive salaries and start-up packages. In accordance with the guidelines of this award, preference will be given to candidates from outside the state of Texas whose research efforts have a high likelihood of supporting technology transfer and commercialization.

Texas State is a doctoral-granting university located in the burgeoning Austin-San Antonio corridor, the largest campus in The Texas State University System, and among the largest in the state. Texas State's 29,000 students choose from 109 undergraduate and 88 master's and 8 doctoral programs offered by eight colleges (Applied Arts, The Emmett & Miriam McCoy College of Business Administration, Education, Fine Arts and Communication, Health Professions, Liberal Arts, Science, and the University College). With a diverse campus community including over 30% of the student body from ethnic minorities, Texas State is one of the top 20 producers of Hispanic baccalaureate graduates in the nation. Additional information about Texas State and its nationally recognized academic programs is available at <http://www.txstate.edu>.

**Qualifications:** Applicants will hold an earned doctoral degree and possess a distinguished record of intellectual and academic accomplishments that will qualify her or him for appointment at the appropriate level in the academic unit with which the applicant has the strongest disciplinary overlap. Other required qualifications include strong leadership and interpersonal skills, a strong record of funded research, a strong record of scholastic achievement, and a commitment to promoting and embracing diversity. Corporate, industrial, or commercialization experience is highly desired.

**Application:** The review of credentials will begin immediately and will continue until the position is filled. To ensure full consideration, please submit the following via email before **March 31, 2009**: Faculty application (<http://facultyrecords.provost.txstate.edu/faculty-employment/application.html>) and accompanying materials which should include a letter of intent, vita, statements of proposed research program, potential commercialization strategy, and teaching philosophy, and list of five references to [msefaculty@txstate.edu](mailto:msefaculty@txstate.edu).

*Texas State encourages recruitment and selection of employees without regard to race, color, religion, sex, age or national origin, and we are committed to increasing the number of women and minorities in administrative and professional positions.*

**INAMORI PROFESSORSHIPS**

**Kazuo Inamori School of Engineering  
New York State College of Ceramics at Alfred University**

**A generous gift from the Kyocera Corporation has enabled the Inamori School of Engineering to appoint a number of distinguished scientists or engineers to Inamori Professorships.**

Holders of the **Inamori Professorships** shall be senior members of the faculty with established international reputations in their field. They shall be expected to develop externally funded, self-sustaining research groups and to forge links with local, state, and other companies, as appropriate, and contribute to the School's instructional requirements by teaching courses in (a) their fields of specialty, and (b) appropriate core subjects, at both the graduate and undergraduate level.

It is expected that there will also be opportunities for collaboration with Kyocera Corporation scientists and engineers, as well as with other members of the School's faculty.

The School, which is a component of the New York State College of Ceramics at Alfred University, offers BS and MS programs in Biomedical Materials Engineering Science, Ceramic Engineering, Electrical Engineering, Glass Engineering Science, Materials Science & Engineering, and Mechanical Engineering, as well as PhD programs in Ceramics, Glass Science, and Materials Science & Engineering.



Interested persons should send a complete resume, including the names of at least three references, to:

A.N. Cormack  
Dean, Kazuo Inamori School of Engineering  
New York State College of Ceramics  
**Alfred University**  
2 Pine Street  
Alfred, NY 14802 USA  
Phone: 607-871-2422  
Fax: 607-871-2354  
[cormack@alfred.edu](mailto:cormack@alfred.edu)

AA/EOE

**Positions Available**



**DIRECTOR**  
**University of Maryland Energy**  
**Research Center**  
 College Park, MD

The University of Maryland (UMD) announces a search for the Director of its Energy Research Center. In response to the critical needs around energy sustainability and independence, in 2006 the University established a campus-wide Energy Research Center (UMERC). Dedicated to advancing the frontiers of energy science and technology, UMERC's primary mission is to develop forward-looking approaches to power generation and energy storage. The Center also includes faculty and research efforts related to energy policy and end-use efficiency.

UMERC's Director will lead a campus-wide coalition of faculty who are dedicated to energy. Spearheaded by the A. James Clark School of Engineering, UMERC spans five colleges and includes approximately 50 faculty members from disciplines such as Physics, Chemistry, Life Sciences, Public Policy, and Agriculture and Natural Resources who are actively pursuing alternative energy technology and policy directions with over \$10M/year in federal and private funding. Additional information on UMERC's research as well as other energy-related activities at UMD can be found by visiting [www.umerc.umd.edu](http://www.umerc.umd.edu).

The Director's primary responsibilities will include mobilizing participating faculty on campus through fostering cross-disciplinary research teams and discussions, organizing efforts to secure significant research funding, representing UMERC to key constituencies, and overseeing administration of the Center.

The Director may come from a research-based university or from industry but is expected to have expertise and ongoing activity in at least one of UMERC's research areas and to be a knowledgeable spokesperson across the broad range of disciplines represented in the Center's research, including electrochemical energy conversion and storage, solar energy conversion, biomass-based energy, nuclear fission and fusion, small-scale portable power, end-use energy efficiency, and energy policy. The Director must be able to develop an enterprise in which the University will be recognized as one of the leading institutions in energy research. The Director will fill the William Crentz endowed-chair in the A. James Clark School of Engineering.

Review of applications and nominations will begin immediately and continue until the appointment is made. However, for best consideration, information should be received by March 15, 2009. Please submit a letter of interest, full resume including list of publications and the names of at least four references, preferably in PDF format by electronic mail, to:

**Ken Kring**  
 Senior Client Partner  
 Korn/Ferry International  
[umerc@kornferry.com](mailto:umerc@kornferry.com)



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



**ENDOWED CHAIR AND DIRECTOR**  
**Center for Materials for**  
**Information Technology**  
**The University of Alabama**

The University of Alabama is seeking candidates for the position of Endowed Chair and Director of the Center for Materials for Information Technology in Tuscaloosa, Alabama. The position will be available on January 1, 2009, and the appointment will be made as a faculty member in a department appropriate to the candidate's field of specialization.

The Center, currently a NSF Materials Research Science and Engineering Center, has a significant number of industrial sponsors and an interdisciplinary focus. Faculty members from six different academic departments and two colleges participate in materials research related to information storage and related areas. The Center also has available world-class fabrication, characterization, and computational facilities commensurate with its broad and interdisciplinary research. The Center's research has focused on magnetic information storage, but leadership of the director in the exploration of new areas is expected. Strong communication skills and a willingness to work in a team environment are critical.

Responsibilities include organization and evolution of the center, establishment of foci for collaborative research, assessment of future needs in information storage and other areas, initiation of research projects appropriate to his/her own expertise, management of the Center's staff, and interaction with industrial, federal, and state agencies to represent the capabilities of the researchers and the facilities of the Center. Candidates should have an earned doctoral degree and a strong record of scholarship and leadership in an area of science or engineering. Additional information about the MINT Center and the University of Alabama can be found at <http://mint.ua.edu/>.

Applicants interested in this position are requested to apply online at <http://facultyjobs.ua.edu/applicants/Central?quickFind=51910>. Consideration of applicants will begin immediately, and will continue until the position is filled.

*The University of Alabama is an affirmative action/equal opportunity educator and employer.*

Positions Available



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**Faculty Positions in Materials Science**

Department of Materials Science & Metallurgy

The Department of Materials Science & Metallurgy (DMSM) at Cambridge seeks to appoint two Lecturers to start in the academic year 2009-10. Rated in the Research Assessment Exercise 2008 as one of the top UK departments in any science/engineering discipline, DMSM provides an outstanding environment in which to pursue forefront materials research. Candidates are sought who can further enhance DMSM's international research profile, and who will play an active part in curriculum development and teaching at Bachelor's, Master's and doctoral levels.

Appointments are to the retiring age, subject to satisfactory completion of a probationary period. The pensionable scale of stipends for a University Lecturer is £36,532 to £46,278 a year.

**An application, electronic or single-sided hard copy, should include a curriculum vitae, a publications list, contact details for three professional referees, and a statement (up to six pages) covering the applicant's research experience to date and research plans for the future. This should be accompanied by a completed form PD18 (parts I and III, available from <http://www.admin.cam.ac.uk/offices/hr/forms/pd18/>), and should be sent to Dr REM Ward, Academic Secretary, Department of Materials Science & Metallurgy, Pembroke Street, Cambridge, CB2 3QZ, UK (lectureships2009@msm.cam.ac.uk). The closing date for receipt of applications is 30 April 2009.**

General information on DMSM's research and teaching is available at <http://www.msm.cam.ac.uk/>. For informal enquiries, and to obtain further particulars, prospective candidates may contact the Head of DMSM, Professor AL Greer (alg13@cam.ac.uk).

The University of Cambridge has a responsibility to ensure that all employees are eligible to live and work in the U.K.

The University is committed to Equality of Opportunity.



**ASSISTANT/ASSOCIATE PROFESSOR**

**Materials Science/Electron Microscopy  
School Of Materials  
Arizona State University**

The interdisciplinary School of Materials is a large academic unit with both graduate and undergraduate degree programs, and well established research programs in electronic and energy materials, as well as in other diverse areas of materials science. The School is expanding its well established microscopy activities to include aberration corrected high resolution analytical transmission electron microscopy. Announcement of this tenure-track position, at the Associate or Assistant Professor level, coincides with acquisition of a new aberration corrected electron microscope to be installed in the LeRoy Eyring Center for Solid State Science/John Cowley Center for High Resolution Electron Microscopy. The successful applicant is expected to be a primary user of this new instrument for his/her personal externally funded research program, and to take a leadership role in familiarizing research personnel with aberration corrected electron microscopy. Applications will be reviewed beginning March 2, 2009; if not filled, the 15th and 30th of each month thereafter until the search is closed. Additional information is available at <http://som.asu.edu/employment/index.php>.

*Arizona State University is an equal opportunity/affirmative action employer.*



**PROGRAM DIRECTOR**

**Condensed Matter Physics (CMP) Program  
Division of Materials Research  
National Science Foundation**

The National Science Foundation's Division of Materials Research (DMR) is seeking qualified applicants for the position of Program Director for the Condensed Matter Physics (CMP) Program. The position will be filled on a permanent basis or non-permanent basis for one to three years as a visiting scientist, as a temporary federal appointment, or under the provisions of the Inter-governmental Personnel Act (IPA).

Within the Division of Materials Research (DMR), the Condensed Matter Physics (CMP) Program supports fundamental, experimental, and combined experiment and theory projects with the goal of understanding the physics behind phenomena exhibited by condensed matter systems consisting of solid, liquid, or amorphous materials. Further information about the CMP program can be found on the DMR website at <http://www.nsf.gov/materials>. Individuals with both experimental and theoretical condensed matter and materials physics experience are desirable, but exceptional candidates with experience in either area will be considered. Appointees are expected to work with the condensed matter and materials physics community to broaden the diversity of participants in NSF programs, and to integrate research and education in the field. Applicants must have a PhD degree or equivalent experience in condensed matter, materials physics, or a closely related field. In addition, six or more years of successful research, research administration, and/or managerial experience pertinent to the program are required.

Applicants for temporary assignment should refer to vacancy number E20090026-Rotator and applicants for permanent assignment should follow the application instructions for vacancy number E20090025 found at <http://www.nsf.gov/jobs>. Applications must be received by **March 31, 2009**.

The National Science Foundation provides reasonable accommodations to applicants with disabilities on a case-by-case basis. Those applicants, who need a reasonable accommodation for any part of the application and hiring process, should notify the point of contact listed on this Vacancy Announcement.

*NSF is an equal opportunity employer committed to employing a highly qualified staff that reflects the diversity of our nation.*

**SEMICONDUCTOR INFRARED IMAGING  
ENGINEER/SCIENTIST**

**Agiltron, Inc.**

Agiltron, Inc., a fast growing company in Woburn, MA, has an immediate job opening for a Semiconductor Infrared Imaging Engineer/Scientist. This is a dynamic role involving the design, modeling, fabrication, and testing of semiconductor II-VI, III-V, and IV alloys infrared focal plane arrays. This position requires a PhD degree in electrical engineering, physics, or equivalent; three years minimum experience. Please send resume to [merdtmann@agiltron.com](mailto:merdtmann@agiltron.com).

**For upcoming MRS meetings information visit [www.mrs.org/meetings](http://www.mrs.org/meetings)**

**Positions Available**



**OHIO RESEARCH SCHOLAR ENDOWED CHAIR**

**Multiscale Composites Processing  
University of Dayton**

The Department of Chemical and Materials Engineering at the University of Dayton invites applications from outstanding, internationally recognized faculty candidates and researchers at the senior level to fill an Endowed Chair in Multiscale Composites Processing. This Ohio Research Scholar position is one of several newly created endowed chairs that are part of a multi-university, statewide initiative formed under the Ohio Research Scholars Program (ORSP). This position is an integral part of a research cluster of excellence in technology-enabling and emergent materials. The successful candidate is expected to have a profound, leadership impact on the research cluster's activities, visibility, recognized scholarship, and collaborations. The Scholars position at UD will have expertise in polymer-based structural composite processing, crucial to bridge the gap between synthesis and commercialization. The Scholar will focus on scalable processing technologies for intrinsically multifunctional structural composites.

The successful candidate will possess a doctorate in materials science/engineering, chemical/process engineering, or a closely related discipline and have an established record of at least 10 years of innovative, interdisciplinary composites processing, materials engineering, or process engineering research commensurate with appointment at the rank of Full Professor. UD offers a competitive salary, attractive fringe benefits, and a generous start-up package. Please visit the following website for a complete description of the position, requirements, and application instructions: <http://provost.udayton.edu/facpositions/CME%20endowed%2012-08.htm>.

*The University of Dayton, a comprehensive Catholic University founded by the Society of Mary in 1850, is an Affirmative Action/Equal Opportunity Employer. Women, minorities, individuals with disabilities, and veterans are strongly encouraged to apply. The University of Dayton is firmly committed to the principle of diversity.*



**RESEARCH FACULTY AND RESEARCHER POSITIONS**

**UNAM-Institute of Materials Science and Nanotechnology  
Bilkent University  
Ankara, Turkey**



UNAM-Institute of Materials Science and Nanotechnology seeks outstanding candidates for multiple Research Assistant Professor, Research Scientist, and Postdoctoral Associate positions to begin immediately, in the areas of:

- Materials Science and Engineering
- Materials Chemistry
- Nanobiotechnology
- Micro and Nanofabrication
- Optics, Photonics and Laser

The candidates should hold a PhD degree in a relevant field and have a strong academic research record. The candidates should have interest in interdisciplinary research topics.

Interested candidates should submit a curriculum vitae, statements of research and teaching interests, and copies of not more than three publications, electronically in a single PDF file to [apply@unam.bilkent.edu.tr](mailto:apply@unam.bilkent.edu.tr). They should also arrange for three individuals to submit letters of recommendation on their behalf to the same address. Applications are welcome until the positions are filled. Turkish citizenship is required for these positions.

UNAM-Institute of Materials Science and Nanotechnology at Bilkent University was established as a center of excellence in nanoscience and nanotechnology and was funded by the Turkish State Planning Organization (DPT) and Bilkent University. The research labs at the institute comprise state-of-the-art facilities in the recently constructed 9000 square meter center including 400 m<sup>2</sup> clean rooms (class 10, 100, and 1000). Some of the research areas include nanophotonics, nanoelectronic devices, nanobiotechnology, nanotextile, sensors, renewable energy, nanomaterials, surface science, nanoscience, and imaging-fabrication techniques at nanoscale. UNAM is a national user facility and calls for proposals are announced periodically.



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- Review open positions tailored to the materials research industry
- Interview with prospective employers
- Visit on-site recruitment booths and network with technical staff

**Location & Hours**

**Moscone West • Exhibit Hall (Level 1)**

Monday, April 13 ( <i>Registration only</i> ) .....	1:00 pm – 4:00 pm
Tuesday, April 14.....	11:30 am – 5:30 pm
Wednesday, April 15 .....	11:00 am – 5:30 pm
Thursday, April 16.....	10:00 am – 1:30 pm

For additional information, visit [www.mrs.org/s09\\_careercenter](http://www.mrs.org/s09_careercenter)

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