

**Positions Available****FACULTY POSITION**

**Department of Physics and the  
Center for Imaging Science  
Rochester Institute of Technology**

The Department of Physics and the Chester F. Carlson Center for Imaging Science (CIS) at the Rochester Institute of Technology invite applications for a tenure-track faculty position beginning late August 2008. We are seeking individuals who are committed to contributing to RIT's core values, honor code, and statement of diversity. The position is a shared appointment between Physics and CIS. Candidates must have a PhD degree in physics or a closely related field, show a commitment to teaching excellence at the undergraduate and graduate levels, and demonstrate an ability to establish and pursue an active program of high-quality research involving both graduate and undergraduate students. We desire candidates with research expertise in a field of physics that critically relies on one or more novel imaging techniques in areas including, but not limited to, optics, biophysics/biomedical imaging, nanoscale and molecular imaging/microscopy, and the development of nanoscale materials for imaging.

The Rochester Institute of Technology is a privately endowed, coeducational university with an enrollment of close to 16,000 students. Together, the Department of Physics and the Center for Imaging Science consist of approximately 50 faculty, 30 research staff and postdocs, and 240 physics and imaging science students. The BS degree is offered in both Physics and Imaging Science, and CIS offers the MS and PhD degrees in Imaging Science and Color Science.

Applications should be submitted online at <https://mycareer.rit.edu> (search for IRC# 15233). Please provide application materials submitted as one PDF file that includes a curriculum vita, a description of research goals, a teaching statement, and a list of three professional references. The closing date for the screening of applicants is **March 1, 2008**. Descriptions of the RIT Department of Physics and the Center for Imaging Science can be found at <http://www.rit.edu/~physics/> and <http://www.cis.rit.edu/>. Inquiries regarding the position should be directed to Dr. M. Kotlarchyk, Search Committee Chair, at [physicsCISsearch@mail.rit.edu](mailto:physicsCISsearch@mail.rit.edu).

*The Rochester Institute of Technology is an equal opportunity/affirmative action employer. Members of protected classes and individuals with the ability to contribute in meaningful ways to the university's continuing commitment to cultural diversity, pluralism, and individual differences are encouraged to apply.*

**DIRECTOR****Advanced Energy Research and Technology Center**

**Stony Brook University and the Advisory Board of the Advanced Energy Research and Technology Center (AERTC) seek outstanding applicants for the directorship of a new \$35 million, 50,000-sq.-ft. center for research in energy that will open within the next 24 months. Applicants with interests in all aspects of energy research, and in particular those with a nanotechnology, bio-inspired, computational, or renewable energy focus, are encouraged to apply.**

The successful applicant should have a record of outstanding research performance and a significant history of external funding from federal, state, and/or private sources. He/she should have had substantial experience interacting with industry and public and political audiences, and the ability to provide leadership for interdisciplinary and multi-institutional research programs.

The individual must have a research and teaching record commensurate with appointment to rank of full professor in one or more academic departments; the position will carry faculty status at the full professor level.

**AERTC is a partnership of academic institutions, research institutions, energy providers, and industrial corporations. Its mission is the development of innovative energy research, education, and technology development with a focus on efficiency, conservation, renewable energy, and nanotechnology applications for new and novel sources of energy.**



STATE UNIVERSITY OF NEW YORK

**Celebrating its 50<sup>th</sup> year, Stony Brook University, a member of the prestigious Association of American Universities (AAU), is one of the nation's premier centers for academic excellence. Stony Brook University enrolls more than 23,000 students and offers approximately 260 degree programs at the baccalaureate, master's, doctoral, and professional certificate level. The University's 2007-2008 operating budget is \$1.8 billion; Stony Brook is Long Island's largest single-site employer, with approximately 13,000 full- and part-time employees, including 2,100 faculty.**

Information about Stony Brook University is available at [www.stonybrook.edu](http://www.stonybrook.edu). For more information about AERTC, see [www.AERTC.org](http://www.AERTC.org)

**TO APPLY** Send a letter of application, a current C.V., and contact information for three references to AERTC Director Search, VP For Economic Development, Room 100 Engineering Building, Stony Brook University, Stony Brook, NY 11794-2200. Application review will continue until the position is filled. Stony Brook University/SUNY is an affirmative action, equal opportunity employer. Women and minorities are strongly encouraged to apply.



## **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 of Nanotechnology invites applications for the position of a

### **Scientist (m/f)**

Conversion of an existing UHV sample preparation facility for producing nanoscale metal layer systems is to be completed. This facility, and others (surface and Mössbauer spectroscopy, scanning tunneling microscopy), are then to be used in producing nanostructured layer systems and characterizing their properties as determined by the interfaces. Another part of the job is to instruct other users in operating the facilities and making sure that they are up to date in a faultfree condition both scientifically and technically.

We expect a University education with the focus on physics or materials sciences and completed with a doctorate. Experience and knowledge in producing metal layer systems by sputtering; in molecular beam epitaxy and laser ablation; in determining magnetic and magneto-electronic properties by SQUID and transport measurements; and in characterizing by the usual techniques of modern materials research (XRD, TEM, SEM, AFM/STM, surface analysis, EXAFS, etc.). Experience in designing complex UHV facilities for layer production by the techniques listed above as well as in surface analysis is expected.

Detailed information about these vacancies can be found at <http://jobs.fzk.de>.

For more information please contact Prof. Dr. Hahn, Tel. +49 (0)7247 82-6350 or e-mail: [office@int.fzk.de](mailto:office@int.fzk.de).

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

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.

Kindly send your application to Mrs. Hase, HPS, making explicit reference to the Vacancy No. 550/2007 or apply online <http://jobs.fzk.de>.

**Forschungszentrum Karlsruhe GmbH in der Helmholtz Gemeinschaft  
Hauptabteilung Personal und Soziales  
Postfach 3640, 76021 Karlsruhe, Germany**

**Internet: [www.fzk.de](http://www.fzk.de)**

**Positions Available****RESEARCH ASSOCIATE**

**Transmission Electron Microscopy  
Rutgers University**

The Department of Materials Science and Engineering at Rutgers University is currently seeking a candidate for a Research Associate position in Transmission Electron Microscopy. The successful candidate should have a PhD degree in Materials Science or related discipline and have extensive experience in the use of transmission electron microscopes including HAADF, GIF, and EELS spectroscopy techniques.

Specific projects involve STEM analysis of nanostructured electrode materials used in Li-Ion batteries, including EELS determination of valence state and structural as well as chemical analysis during Li-induced phase transformations. Additional studies will involve structural, chemical, and electronic structure determination of interfaces in oxides and carbide systems.

The appointment will be for one year and may be renewable for subsequent years. Interested candidates should send their CV with three references to:

Professor Frederic Cosandey  
Department of Materials Science and Engineering  
Rutgers University, 607 Taylor Road  
Piscataway, NJ 08854-8065  
cosandey@rci.rutgers.edu  
Tel: 732-445-4942; Fax: 732-445-5977  
*Rutgers University is an equal opportunity/affirmative action employer.*

**SENIOR R&D CHEMISTS**  
**LumiStor Inc.**

LumiStor Inc. is a private company based in Quebec, Canada, developing proprietary photopolymers for new generation optical data storage media and applications. We have two openings for postdoctoral level chemists, ideally with working experience, to conduct exploratory and developmental R&D in photopolymers for optical media.

**Post 1:** Requires good knowledge of physical chemistry, principles, theories, and practices of polymer chemistry and characterization, polymerizations reactions, and reaction kinetics. Additional experience in organic synthesis experience will be valuable.

**Post 2:** Requires good knowledge of organic photochemistry; organic synthesis experience will be valuable.

For further details, please contact:  
Dr. N. Ashurbekov, Chief Scientist  
Tel: 418-658-0808  
Mobile: 418-801-9270  
nachourbekov@lumistor.ca

**DIVISION HEAD POSITIONS****Shenyang National Laboratory for Materials Science**

The Shenyang National Laboratory for Materials Science (SYNL) is seeking qualified candidates for the Division Head positions for the following:

- Catalysis Materials Division
- Biomaterials Division
- Materials Computation and Design Division
- Functional Polymer Materials Division

The SYNL is operated by the Institute of Metal Research, Chinese Academy of Sciences, to conduct the fundamental research of materials science. Currently the SYNL, with 483 scientists, staff, and students, is comprised of eight research divisions and a technical service division.

Qualified candidates should hold a PhD degree in a related field, be under 45 years old, and have a minimum of four years relevant working experience in overseas research institutions. The candidates should possess a distinguished record of research accomplishments and publications, be internationally recognized, and should be eligible for an associate professor or above or at same level post. The successful candidates will be expected to set up and guide the development of new research divisions in the SYNL.

The positions will offer competitive salary and start-up packages involving laboratory space, equipment, and research budget. For complete details, contact Prof. Jian Xu at (86-24) 2397-1950 or e-mail jianxu@imr.ac.cn. Interested persons should submit a CV, a list of publications, reprints of three key publications, a research proposal in the SYNL within a 2000-word limit, and names and addresses of at least three references to:

Professor Jian Xu, Shenyang National Laboratory for Materials Science  
Institute of Metal Research, Chinese Academy of Sciences  
72 Wenhua Road, Shenyang 110016, China  
Phone: (86-24) 2397-1950; Fax: (86-24) 2397-1215; E-mail: jianxu@imr.ac.cn

Applications will be accepted until all the positions have been filled.

**Deputy Center Director-Materials and Computational Science Center**

The National Renewable Energy Laboratory (NREL), in Golden, Colorado, invites applications for the position of Deputy Center Director to serve as the Program Manager and NREL's primary point of contact to the U.S. Department of Energy's Office of Science, Basic Energy Science Office. The Deputy Center Director works closely with the Materials and Computational Science Center Director to lead, manage, and provide vision for the theoretical, computational, and experimental materials research for NREL. In consultation with NREL senior management and staff, as well as with EE and SC program managers, develop and execute a long-term strategy for the laboratory's materials physics and chemistry research efforts in support of NREL's mission.

**Leadership:** Work with the Materials and Computational Science Center Director to provide leadership and vision for NREL's theoretical, computational, and experimental materials physics and nanostructured materials research. Establish institutional goals in theoretical, computational, and experimental materials physics and related technologies. Plan and develop NREL's materials physics and related capabilities. Help recruit and manage Center staff. Advise the Center Director, Executive Management, and the Lab Director on trends in materials physics research. Identify and pursue strategic funding opportunities with NREL as lead institution or in cooperation with other federal labs, universities, and industry partners.

**Communication and Collaboration:** Serve as the Program Manager and NREL's primary point of contact to the U.S. Department of Energy's Office of Science, Basic Energy Science Office. Establish and maintain productive external contacts and relationships with programmatically relevant parts of DOE, DOD, academic, and industrial communities. Write technical papers and reports and make oral presentations to user community and national and international scientific meetings on topics related to theoretical, computational, and experimental materials physics research.

**Technical Management:** Initiate and oversee innovative research programs in programmatically relevant areas of materials physics and related research. Work with the Center Director to integrate modeling and simulation into experimental research efforts at NREL.

**MINIMUM REQUIREMENTS:** Ph.D. or equivalent experience in chemistry, physics, mathematics, or related scientific discipline. A minimum 15 years of experience managing progressively complex, relevant technical assignments. Demonstrated ability to effectively recruit, lead, manage, motivate, and mentor staff. Nationally recognized experience and superior technical achievement. Demonstrated success in research and technical program development. Demonstrated expertise as a team player with outstanding communication, interpersonal, organization, negotiation, and facilitation skills. Ability to develop and use computer simulation codes to model chemical and materials properties. Demonstrated ability to develop and grow a nationally and internationally recognized research program.

Complete details visit: [http://www.nrel.gov/mcsc\\_deputy](http://www.nrel.gov/mcsc_deputy)

For more information, contact Neil Conrad at (303) 384-7569 or email neil.conrad@nrel.gov

**NREL is an equal opportunity employer committed to diversity and a drug-free workplace.**



**Positions Available**
**POSTDOCTORAL RESEARCH  
ASSOCIATE AND GRADUATE  
RESEARCH ASSISTANT POSITIONS**  
**University of Tennessee Space Institute**

The University of Tennessee Space Institute seeks candidates to fill two positions, one at the postgraduate level and one at the graduate level. These positions will play a central role in supporting research activities in the Center for Laser Applications. Responsibilities include synthesis of glass ceramics with rare-earth dopants and extensive characterization at the bench top level and at large facilities such as x-ray and neutron sources. Familiarity with XRD and photoluminescence measurements is a plus.

For the postdoctoral position, a PhD degree in physics, chemistry, or materials science is required.

For the graduate student, a bachelor's degree in a scientific or engineering discipline is sufficient. The position is contingent on the student's acceptance into the Materials Science and Engineering Graduate Program at the University of Tennessee.

Interested individuals should submit electronically a complete curriculum vita, a summary of research interests (2-page maximum each), and the names and contact information (including e-mail addresses) of a least three references to: jjohnson@utsi.edu. Alternatively, these materials may be submitted to:

Professor Jacqueline A. Johnson  
 Department of Materials Science and Engineering  
 University of Tennessee Space Institute  
 411 B.H. Goethert Parkway  
 Tullahoma, TN 37388-9700

Screening will begin around **March 1, 2008** and will continue until the positions are filled.

*The University of Tennessee Space Institute is an EEO/AAP>Title VI/Title IX/Section 504/ADA/ADEA institution in the provision of its education and employment programs and services.*

**POSTDOCTORAL RESEARCH POSITION  
Department of Materials Science & Engineering  
Rutgers University**

The Department of Materials Science & Engineering invites qualified applications for a Postdoctoral Research position. The research project involves powder processing and process development for advanced structural ceramics using the solid freeform fabrication (SFF) technique Fused Deposition of Ceramics (FDC). The position will be contract funded with a starting date of March 1, 2008. Starting salary dependent on experience. US Citizenship or Green Card required.

Candidates must have already completed a PhD degree in Materials Science or other related field. Demonstrated expertise in the following areas is required: filled system rheology, powder processing, extrusion, and process development. Experience in the following areas is also highly desirable: machine design, CAD, and SFF. Candidates must be highly motivated and capable of working as a member of a team. Candidates must have outstanding writing and communication skills.

Interested candidates should send their resume (including date of availability, the names of three references, and a copy of several relevant publications) to:

Professor Stephen C. Danforth  
 Department of Materials Science & Engineering  
 Rutgers University, 607 Taylor Road, Piscataway, NJ 08854-8065  
 Tel: 732-445-2211; Fax: 732-445-5595  
 E-mail: danforth@rci.rutgers.edu

*Rutgers University is an equal opportunity employer.*

**RESEARCH SCIENTIST  
Department of Materials Science & Engineering  
Lehigh University**

The successful candidate for this position will have the opportunity to participate with students and faculty on research projects and provide instruction to students in laboratory classes dealing with process-structure-property relations in materials. The position also entails management of the undergraduate and graduate laboratories (in particular the light optical microscopy laboratory) and proactive maintenance of a state-of-the-art light optical microscopy facility. Other responsibilities are: guidance and training of students in laboratory techniques, including metallographic sample preparation; overseeing laboratory safety; coordination of field trips; organization of laboratory tours; development of demonstrations for undergraduate MSE courses; assisting the placement of students in internship positions; and supervision of work-study students.

Applicants should possess a degree in Materials Science and Engineering (BS, MS, or PhD level) or related field and preferably have experience in undergraduate instruction and metallographic sample preparation for both light optical and electron microscopy techniques. The successful candidate must demonstrate a strong desire to mentor students and contribute new concepts and approaches in metallography for research purposes.

Applicants should submit a complete resume and three references by **March 31, 2008** to Deanne Hoenscheid, Lehigh University, 5 E. Packer Avenue, Bethlehem, PA 18015-3195. Lehigh University provides comprehensive benefits including partner benefits.

*Lehigh University is an affirmative action/equal opportunity employer and does not discriminate on the basis of age, color, disability, gender, gender identity, marital status, national or ethnic origin, race, religion, sexual orientation, or veteran status.*


**FACULTY POSITION  
Department of Materials  
Science & Engineering  
University of California, Berkeley**

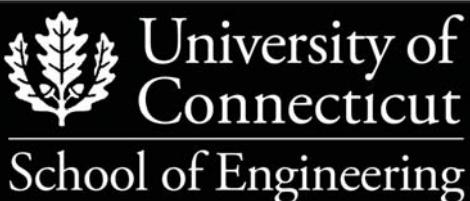
The University of California at Berkeley invites applications for a faculty position in the general area of materials for bulk energy sources. Although appointment at a senior level is preferred, exceptional junior candidates will be considered. Depending upon experience, the successful candidate will be offered a tenured or non-tenured ladder-rank faculty position within the Department of Materials Science & Engineering. Applicants must have a strong commitment to teaching and working with a diverse population of students, and must show potential for high quality research in the area of materials for energy sources such as batteries, fuel cells, and photovoltaics, both theory and experiment. A doctoral degree in Materials Science and Engineering or an equivalent field is required. The position is effective July 1, 2008.

All qualified candidates are invited to apply, and applications from minority and women candidates are especially encouraged. Please send a curriculum vitae, bibliography, statement of research interests, and a list of references, as a hard copy, postmarked by **March 31, 2008**, to:

Professor Robert O. Ritchie, Chair  
 Department of Materials Science & Engineering  
 210 Hearst Memorial Mining Building, MC 1760  
 Berkeley, California 94720-1760, USA

No e-mail applications will be considered; neither will applications submitted after the deadline.

*The University of California is an Equal Opportunity, Affirmative Action Employer.*

**Positions Available****ASSISTANT/ASSOCIATE/FULL PROFESSOR  
Fuel Cell, Alternative and Sustainable Energy**

The School of Engineering at the University of Connecticut invites applications and/or nominations for ten (10) tenure-track faculty positions that will form the core of an interdisciplinary, integrated team working in the strategic areas of fuel cells or other alternative energy technologies and applications. The team will comprise qualified faculty at all ranks: Assistant, Associate, and Full Professor. Qualified candidates may be considered for tenured positions.

This sustainable energy team will conduct visionary research, education, and outreach related to a new **Eminent Faculty Initiative in Sustainable Energy** established in 2007 at the University of Connecticut (UConn). The initiative is sustained by a permanent allocation of more than \$2 million annually from the State of Connecticut supplemented by additional support from private industry. The Eminent Faculty Initiative will be led by a senior, internationally recognized researcher.

Faculty activities will be centered within the Connecticut Global Fuel Cell Center at UConn, a research unit of the School of Engineering. The CGFCC, established in 2001 with significant investment from Connecticut Innovations, Inc. and Connecticut industry, is housed in a state-of-the-art 16,000 sq. ft. facility located at the Storrs campus. The mission of the Center is to become the world's premier academic resource for advanced research, development and technology transfer in fuel cell technologies.

Broad areas of technical expertise include, but are not limited to: alternative energy sources, energy conversion and storage, integrated system design and implementation, along with the corresponding enabling technologies.

Applicants must have a PhD degree in engineering or a related physical science discipline, as well as a demonstrated record of research in alternative and sustainable energies and supporting technologies, including fuel cells. It is expected this scholarly record will be outstanding and commensurate with rank. Academic appointment will be at the rank of Assistant, Associate, or Full Professor aligned with one of the School's five departments (Chemical, Materials & Biomolecular; Civil & Environmental; Computer Science & Engineering; Electrical & Computer; or Mechanical Engineering).

The School of Engineering at the University of Connecticut includes 1,700 undergraduate and 475 graduate students. Among the 110 faculty members are two members of the National Academy of Engineering, one member of the National Academy of Sciences, 18 chief editors and 50 associate editors and editorial board members of prestigious technical journals, as well as 45 Fellows of professional societies. The School has eight Endowed Chairs or Named Professorships throughout the five departments, with funding available for additional positions.

The University of Connecticut is located in the scenic Northeast corner of the State, in a region that is rich with private sector fuel cell-related research and development activity. The University is in the midst of a 20-year, State-funded \$2.3 billion initiative to enhance the research and teaching infrastructure, and is consistently rated (e.g., *U.S. News—America's Best Colleges*) the top public university in New England.

Applications, including curriculum vitae along with the names and contact information of at least five references, should be sent to: Chair, Eminent Faculty Initiative Search Committee, Office of the Dean, School of Engineering, 261 Glenbrook Road, Unit 2237, Storrs, CT 06269-2237. Electronic submission in pdf format is encouraged. All communications are to be sent to [efsc@engr.uconn.edu](mailto:efsc@engr.uconn.edu). Additional information is available at [www.engr.uconn.edu](http://www.engr.uconn.edu).

Review of applications will begin immediately, and will continue until the positions are filled.

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

**Positions Available****FACULTY POSITIONS****Materials Science and Engineering****The University of Texas at Dallas**

The Materials Science and Engineering department in the Erik Jonsson School of Engineering and Computer Science at The University of Texas at Dallas is seeking two motivated and dynamic candidates with expertise principally in the following multidisciplinary areas:

- **Energy and the Environment**, including solar energy (photovoltaics), hydrogen generation, and storage.
- **Bioelectronics**, with a focus on the interface between the biological and electronic worlds.
- **Multifunctional Sensors**, with a focus on novel materials or structures for chemical, physical, and bio sensors.
- **Organic or Carbon-based Nanoelectronics**, including flexible electronics, graphene, and hybrid materials.

The position is at the assistant or associate professor level, starting spring, summer, or fall 2008. The candidate must have a PhD degree in Materials Science, Electrical Engineering, Chemistry, Physics, or a related field with a strong record of scholarly achievements. The candidate must also be able to demonstrate his/her potential for attracting external research funding. Junior level candidates belonging to underrepresented groups are particularly encouraged to apply. Located in the new Natural Science and Engineering Research Laboratory (<http://www.utdallas.edu/news/archive/2007/0605001.html>), with new state-of-the-art facilities for synthesis, nanofabrication, and interface characterization, the MSEN department is composed of highly interactive, diverse faculty members carrying out programs in nanoelectronics, in collaboration with Physics, Chemistry, Electrical Engineering, and many external collaborators. The environment is ripe to welcome highly motivated faculty to help take the research and educational programs to the level of first tier universities.

Review of the applications will begin **March 1, 2008** and continue until all positions are filled. Tenure-track appointments at the Assistant Professor level are favored, though more senior candidates will be considered. Applicant submissions should include 1) a C.V., 2) a detailed research vision and goals statement, 3) a one-page teaching philosophy statement, 4) three references with contact information, and 5) a cover letter describing the interest in this multidisciplinary program.

The University is located in one of the most attractive suburbs of the Dallas metropolitan area. There are over 900 high-tech companies within 5 miles of the campus, including Alcatel, EDS, Ericsson, Fujitsu, Hewlett-Packard, Texas Instruments, MCI, Nokia, Nortel Networks, Perot Systems, and Raytheon. Several leading telecommunications companies have major research and development facilities in our neighborhood. Opportunities for joint university-industry research projects are excellent. The Erik Jonsson School has experienced very rapid growth in recent years and recently ranked among the top 50 public engineering schools in the U.S.

For more information, e-mail Dr. Yves Chabal, Search Chair, at [chabal@utdallas.edu](mailto:chabal@utdallas.edu). The search committee will begin evaluating applications as soon as possible and will continue until the position is filled.

Applicants should mail a curriculum vita, research plan and teaching philosophy with a list of at least five academic or professional references as soon as possible to:

Academic Search #7090  
**The University of Texas at Dallas**  
800 W. Campbell Road, Mail Station AD 42  
Richardson, TX 75080

*Indication of ethnicity and sex are requested as part of the application, but not required. UTD is an AA/EQ university and strongly encourages applications from candidates who would enhance the diversity of the university's faculty and administration.*

**Positions Available****FACULTY POSITION**  
**Experimental Condensed Matter/Nanophysics**  
**Northeastern University**

The Department of Physics at Northeastern University, Boston invites applications at the associate or full professor level for a faculty position in condensed matter/nanophysics, including applications to emerging interdisciplinary fields. Applicants must have externally-funded research. Active research areas in the Department include nanomaterials, nanomedicine, spintronics, correlated electron systems, mesoscopic physics, and biomolecular physics. All candidates should be able to teach effectively at both the undergraduate and graduate levels.

Interested candidates should submit a curriculum vitae and a description of research interests, and make arrangements for at least three letters of recommendation, all sent to: Experimental Physics Search Committee, Northeastern University, Department of Physics, 110 Forsyth Street, Boston, MA 02115 or via email to [epsearch@neu.edu](mailto:epsearch@neu.edu). Additional information about the department is available at [www.physics.neu.edu](http://www.physics.neu.edu).

*Northeastern University is an AAEO>Title IX Employer and particularly welcomes applications from minorities, women and persons with disabilities.*

Group leader at the  
Max-Planck-Institut für  
Eisenforschung  
in Düsseldorf (Germany)



The Max-Planck-Institut für Eisenforschung in Düsseldorf (Germany) invites applications for **two group leader positions** (non-permanent):

► Leibniz Research Group for Biological Nano-Composites

The group currently works on the basic study of the structure and mechanical properties of natural materials such as arthropod cuticle and bone. Future direction of the initiative is open to focus on other biological materials, biomimetics, functional properties, novel characterization and / or new theoretical approaches. The new group leader is invited to shape the direction of the group.

► Research Group for Advanced Composite Synthesis

This is a new group with the aim to focus on topics such as novel composites, metal-based in-situ composites, electrodeposition, CNT composites, multilayer composites, nano-composites, biomimetic synthesis, bulk metallic glass synthesis, and / or other advanced composite synthesis approaches. The new group leader is invited to shape the direction of the group.

Desired Qualifications: Excellent Ph.D.; Strong publication record in leading peer-review journals; Excellent English; Ability and will to build an internationally competitive research initiative; Strong record in raising funds; Interest to attract and advise Ph.D. students.

We are an equal-opportunity employer. We offer a strong international research environment with excellent equipment. We invite candidates to send their complete CV (including documents of former grades; 3 best publications; 3 Professors to give reference; 1-page research concept) as pdf via email to

**Professor Dierk Raabe**  
**Max-Planck-Institut für Eisenforschung GmbH**  
**Max-Planck-Straße 1 • 40237 Düsseldorf • Germany**  
**d.raabe@mpie.de, Tel.: +49 (0)211 - 67 92 340, www.mpie.de**



# Publishing Partners

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a global leader in the dissemination of  
leading-edge materials research.*



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- ▼ **extensive marketing and promotional services** that reach a broad international materials market. Our customer database consists of more than 100,000 contacts across the full range of materials science, from which we selectively target our promotions.
- ▼ **exposure on the MRS Web site.** Known as the Materials Gateway, our site enjoys an average of 110,000 unique visitors each month for materials research news and products.

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

## Positions Available



### RESEARCHERS WPI Advanced Institute for Materials Research Tohoku University, Japan

The proposal on the WPI research center for Atm.Molecule.Materials of Tohoku University was accepted by MEXT as one of the top five WPI research centers. Based on this proposal, Tohoku University established WPI Advanced Institute for Materials Research on October 1, 2007. The main objective of the Center is to promote the development of new materials under a world-leading organization for interdisciplinary research in functional materials, by use of an innovative method of atom and molecular control, departing from the typical approaches and moving towards the next generation. The center will pursue 1) the creation of new compounds and materials with innovative functions which exceed existing ones; 2) the construction of devices based on a new fundamental paradigm; and 3) the promotion of applied research projects on materials and system architecture that will generate direct social impacts. Additional details are available on our homepage at <http://www.wpi-aimr.tohoku.ac.jp/en/index.html>.

**Positions Available:** Associate Professor, Assistant Professor, and Postdoctoral Research Fellow. Approximately more than ten people for each position will be hired.

**Starting Date:** As soon as possible

#### Employment Conditions

- Associate and Assistant Professor Salary—an annual income system is employed according to the rule of Tohoku University
- Postdoctoral Research Fellow Salary—competitive, in a range of 4,500,000 and 6,000,000 yen
- Research Fund—Cooperative research together with PI who manages the research fund is recommended, but independent research proposals for associate and assistant professors are also encouraged
- Associate and Assistant Professor Term—in principle, 5-year term but every two years there is a review process
- Postdoctoral Research Fellow Term—one year, but possible renewal through review

**Documents for Application:** CV; publication list, including citation data; and outline of research accomplishments and research proposal at WPI.

The files of the above documents (pdf format) should be sent via e-mail to [wpi-office@bureau.tohoku.ac.jp](mailto:wpi-office@bureau.tohoku.ac.jp), or the printed documents should be sent via regular mail to the following address:

WPI Advanced Institute for Materials Research; Tohoku University  
980-8577 Katahira 2-1-1; Aobaku, Sendai, Japan

**Deadline for Applications:** The deadline for first-round recruitment is the end of February 2008.

### FACULTY POSITIONS College of Engineering and Applied Science University of Colorado at Boulder

The University of Colorado at Boulder College of Engineering and Applied Science seeks applications for two tenure-track faculty positions in materials engineering, including but not limited to nano/microstructured materials, structural materials, materials for energy applications, polymeric materials, biomaterials, and electronic and optical materials. Hired faculty may be rostered in any one of several engineering departments, with participation in interdisciplinary materials research and education expected. The position is at the assistant professor level, although higher ranks will be considered for more senior candidates. A PhD degree and a commitment to teaching and research are required.

Applicants should submit a curriculum vitae, statements of research and teaching interests, and contact information for at least three references via [www.jobsatcu.com](http://www.jobsatcu.com) (posting # 803067). Review of applications will begin in January, 2008 and will continue until the position is filled. Background checks are required for finalists. See [engineering.colorado.edu/materialsopening](http://engineering.colorado.edu/materialsopening) for a complete job description.

*The University of Colorado is sensitive to the needs of dual career couples, and is committed to diversity and equality in education and employment.*



## MRS 2008 SPRING Career Center

### Meet Your Next Employer ...

Show off your talents to the world's most prestigious universities, laboratories and high-tech firms. FREE of charge to all MRS Members, the Career Center provides targeted employment opportunities to candidates seeking positions in the scientific community.

- 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, March 24 (Registration only).....	1:00 pm – 4:00 pm
Tuesday, March 25.....	11:00 am – 5:30 pm
Wednesday, March 26.....	11:00 am – 5:30 pm
Thursday, March 27.....	10:00 am – 1:30 pm

For additional information, visit [www.mrs.org/s08\\_careercenter](http://www.mrs.org/s08_careercenter)

### Member Alert!

*Do the research to advance your career...visit the MRS Career Center in San Francisco!*