

**Positions Available**



**FACULTY POSITIONS  
College of Polymer Science and Polymer Engineering**

The College of Polymer Science and Polymer Engineering (CPSPE) invites applications for faculty appointments focused in the area of Biomaterials and Biosciences. The University of Akron (UA), with 26,000 students on the main campus, has a long history in polymer expertise dating back to 1909. CPSPE has 31 full time faculty and over 160 full time and part time graduate students in two academic departments—the Department of Polymer Science and the Department of Polymer Engineering. CPSPE will play a key role in the BioInnovation Institute of Akron, a multidisciplinary, multi-institutional research endeavor just established with \$80M initial funding. CPSPE faculty members also participate in UA's recently established Integrated Bioscience PhD program. All successful applicants will direct graduate student research, participate in classroom teaching, and support department, college, and university strategic goals through service on committees and participation in departmental activities

**Ohio Research Scholar Position in Biobased Advanced Materials and Energy**

The Department of Polymer Science is seeking applications for an Endowed Chair Professor position with a research program in the emerging areas of *polymer chemistry of biobased materials, green chemistry, or biomaterials*. The successful candidate will have a PhD degree in Chemistry, Polymer Science, Biochemistry, Chemical Engineering, or a closely related field. The Research Scholar will collaborate closely with cluster hiring at The Ohio State University and University of Dayton and may have an adjunct appointment with the Department of Horticultural and Crop Science at The Ohio State University campus located in Wooster, Ohio. The chosen candidate will be expected to create innovative and novel plant-based chemicals and products and lead an internationally recognized program including developing and mentoring collaborative research teams and partnerships involving other universities, government, and private industry.

**Ohio Research Scholar in Biomaterials in the Department of Polymer Science**

The Department of Polymer Science is seeking applications for an Endowed Chair Professor position with a research program in the emerging areas of *polymer chemistry of biomaterials, tissue engineering, and targeted drug delivery*. Applicants should have a PhD degree in Chemistry, Polymer Science, Biochemistry, Chemical Engineering, or a closely related field and should have a strong background in biological or biomedical sciences, preferably in orthopaedic-related research. The Research Scholar will collaborate closely with cluster hiring at the Northeastern Ohio Universities Colleges of Medicine and Pharmacy (NEOUCOM/P). The successful candidate will be a member of the Orthopaedics Research Cluster of Northeast Ohio consisting of The University of Akron, NEOUCOM/P, Case Western Reserve University, Lerner Research Institute of the Cleveland Clinic Foundation, Akron General Medical Center, Akron Children's Hospital, and Summa Health System. The chosen candidate will be expected to lead an internationally recognized program including developing and mentoring collaborative research teams and partnerships involving other universities, local hospitals, and private industry.

**Assistant Professor of Polymer Science**

The Department of Polymer Science is seeking applications for a tenure-track Assistant Professor position with research interest in the emerging areas of *biomaterials, biophysics, and bioimaging*. Applicants should have a PhD degree in Materials Science, Polymer Science, Polymer Physics, Chemical Engineering, or a closely related field. Applicants must have a proven record of scholarly achievement as documented by publications and very strong letters of recommendation, excellent communication skills, and the potential to establish and maintain a robust, externally-funded, nationally-recognized research program.

**Assistant Professor of Polymer Engineering**

The Department of Polymer Engineering is seeking applications for a tenure-track Assistant Professor position with research interests in the area of *biomaterials processing and design*, especially for design and fabrication of biomedical devices and sensors. This research will capitalize on state-of-the-art infrastructure available in the University's Wright Center for Multifunctional Nanomaterials and Devices and the BioInnovation Institute of Akron. Applicants should have a PhD degree in biomedical, chemical, or mechanical engineering or a related discipline and proven record of scholarly publications. The applicant should have strong communication skills and the potential to establish a strong, nationally-recognized, externally-funded research program.

**INFORMATION REGARDING SUBMITTING APPLICATIONS:**

**Ohio Research Scholar Positions:** An applicant should send a cover letter specifying the position sought, curriculum vitae, including a list of publications; documentation of prior research support; evidence of industrial collaboration and technology transfer experience; detailed research and teaching plans; and names of three references with contact information to Prof. Matthew Becker, ORSP Search Position, Department of Polymer Science, The University of Akron, Akron, OH 44325-3909.

**Assistant Professor Position in Polymer Science:** An applicant should send a cover letter, resume, list of publications, documentation of prior research support (if applicable), detailed research and teaching plans, and three confidential letters of reference to Prof. Gustavo Carri, Polymer Physics Search, Department of Polymer Science, The University of Akron, Akron, OH 44325-3909.

**Assistant Professor Position in Polymer Engineering:** An applicant should send a cover letter, resume, list of publications, documentation of prior research support (if applicable), detailed research and teaching plans, and three confidential letters of reference to Prof. Alamgir Karim, Polymer Engineering Search, Department of Polymer Engineering, The University of Akron, Akron, OH 44325-0301.

Review of applications for each position will begin immediately and continue until that position is filled.

*The University of Akron is committed to a policy of equal employment opportunity and to the principles of affirmative action in accordance with state and federal laws.*



**Positions Available**



**Materials Science and Engineering**

The University of Texas at Dallas

**DISTINGUISHED CHAIRS NANOELECTRONICS**



The Department of Materials Science and Engineering in the Erik Jonsson School of Engineering and Computer Science at the University of Texas at Dallas seeks outstanding applicants for Distinguished Chairs in Nanoelectronics (PCT090420) in the area of nanoelectronics and materials for electronic applications.

The successful applicants will have an outstanding recognized record of research in nanoelectronics and have the qualities necessary for academic leadership. These appointments offer scope for the appointees' individual and collaborative research talents and provide leadership in developing sponsored research programs in nanoelectronics. In addition, the successful applicants will be expected to teach undergraduate and graduate classes, and be involved in service to the university and profession. Applicants for this tenured position at the full Professor rank should have a PhD degree in materials science, electrical engineering, or related discipline. Joint appointments among relevant departments are envisioned.

The University is located in one of the most attractive suburbs of the Dallas metropolitan area. There are hundreds of high-tech companies within a few miles of the campus, including Texas Instruments, Nortel Networks, Alcatel-Lucent, Ericsson, Hewlett-Packard, Lockheed-

Martin, Raytheon, Samsung, Nokia, Fujitsu, MCI, EDS, Perot Systems, and Zyvex. Opportunities for joint university-industry research projects are excellent.

The Erik Jonsson School is experiencing very rapid growth as a part of a \$300 million program resulting in expanding programs, recruitment of outstanding faculty and PhD students, increased research funding, and establishing new programs. This endowed chair position is enabled in part by the new \$40M Texas Nanotechnology Research Superiority Initiative by the State of Texas.

Review of applicants will begin immediately and will continue until the positions are filled. The starting date is negotiable. Faculty positions are security sensitive and a background check will be performed for selected applicants. Indication of gender and ethnicity is requested as a part of the application for affirmative action statistical purposes only.

Curriculum vitae, a letter of interest and descriptions of educational background and teaching experience, and at least five letters of recommendation should be submitted via the online application system at <http://provost.utdallas.edu/facultyjobs/pct090420>.

*The University of Texas at Dallas is an Affirmative Action/Equal Opportunity Employer.*

**GROUP LEADER IN ELECTRON MICROSCOPY**

The Center for Functional Nanomaterials (CFN) at Brookhaven National Laboratory is seeking an outstanding electron microscopist to conduct research in nanomaterials and to lead its Electron Microscopy (EM) group. The CFN is a user-oriented research center with a scientific focus on energy-related themes and with state-of-the-art facilities in materials synthesis, nanofabrication, and structural and functional characterization. The EM facilities consist of two dedicated aberration-corrected transmission electron microscopes (STEM and environmental TEM) and a versatile 200keV TEM, as well as a sample-preparation laboratory.

The successful candidate will join an interdisciplinary team devoted to carrying out the CFN's dual mission of conducting in-house research in nanomaterials for catalysis, solar-energy conversion, and inorganic-organic hybrid devices, and enabling nanoscience research by external users of the CFN facilities. The responsibilities of the EM group leader include developing the strategic plan for the group; conducting research in topics related to the scientific themes of the CFN and that fully exploits its advanced facilities; managing the user program in electron microscopy; managing a diverse group of scientists and engineers; and being a collegial member of the CFN's management team.

Qualified candidates will have a Ph.D. degree in materials science, physics, chemistry, or related field, at least eight years of professional experience in electron microscopy, and an outstanding record of scientific achievements. Good communication and interpersonal skills are essential. Experience in managing a research group is highly desirable.

To apply, visit <http://www.bnl.gov/HR/careers> and search for Job ID # 14893. Brookhaven National Laboratory is an equal opportunity employer committed to workforce diversity.



[www.bnl.gov](http://www.bnl.gov)

**POSTDOCTORAL POSITIONS**

**Peter A. Rock Thermochemistry Laboratory  
University of California, Davis**

PhD student and postdoctoral positions available in the Peter A. Rock Thermochemistry Laboratory at UC Davis (Alexandra Navrotsky). Fundamental thermodynamics and high temperature calorimetry of systems relevant to SOFCs, nano and microporous materials, actinides and nuclear waste, minerals, CO<sub>2</sub> sequestration, polymer derived ceramics, sulfides, melts, and glasses. Visit the website at <http://thermo.ucdavis.edu> or contact [anavrotsky@ucdavis.edu](mailto:anavrotsky@ucdavis.edu) for more information.

*UC Davis is an affirmative action/equal opportunity employer.*

**SCIENTIST I  
International Specialty Products**

**Scientist I** to conduct laboratory research for International Specialty Products in Wayne, NJ; participate in external collaboration projects with other industrial scientists and universities; and work across key businesses with an emphasis on Personal Care projects. PhD degree in Materials Science or related field with one to two years of industry experience (or relevant academic experience) required. Broad background in experimental techniques to measure surface and bulk properties of materials. Please see full description and respond through **Careers** on [www.ispcorp.com](http://www.ispcorp.com); search for **Job 1403**.

Positions Available



**POSTDOCTORAL POSITION**  
**Softmatter Device Structures**  
**Los Alamos National Laboratory**

The Softmatter Nanotechnology and Advanced Spectroscopy Team (<http://quantumdot.lanl.gov/>) of the Chemistry Division (CHEM) is seeking outstanding candidates to join existing projects on light-emitting, lasing, and photovoltaic structures based on colloidal nanocrystals (quantum dots) and organic/inorganic composites. The position will involve the development of novel approaches for charge injection/extraction into/from the nanocrystals, the study of conductivity and photoconductivity in nanocrystal assemblies, and the fabrication of thin-film devices by using various deposition techniques such as spin-coating and magnetron sputtering. This work will be supported by existing team efforts in nanosyntheses, optical spectroscopies, and microstructural characterization.

**Required Skills:** Strong background in device processing and characterization involving soft materials. Experience in semiconductor, metal and metal-oxide thin-film growth. A good understanding of device physics. Skills should also include photolithography, sputtering techniques, and electrical and optical device measurements.

**Desired Skills:** Experience working in a clean-room environment and some knowledge of device modeling. Experience in microstructural analysis (TEM, XRD, XPS), routine optical spectroscopies (UV-Vis, FTIR, PL, PLE), and scanning-probe microscopy (STM, AFM, MFM).

**Education:** A PhD degree completed within the last five years or soon to be completed is required.

**Notes to Applicants:**

- For additional technical inquiries, contact Victor Klimov at [klimov@lanl.gov](mailto:klimov@lanl.gov).
- Candidates may be considered for a Director's Fellowship and outstanding candidates may be considered for the prestigious J. Robert Oppenheimer, Richard P. Feynman, or Frederick Reines Fellowships. Please see Special Postdoctoral Fellowships at <http://www.lanl.gov/science/postdocs/appointments.shtml> for further details.
- For general information refer to the Postdoctoral Program page at <http://www.lanl.gov/science/postdocs/>.
- To apply, visit [www.lanl.gov/jobs](http://www.lanl.gov/jobs) and apply to one of the following job numbers: 215606; 215607; 215608. Use the "Apply for this job" button and submit a resume, publications list, and a cover letter outlining current research interests.

*Los Alamos National Laboratory is an Affirmative Action/Equal Opportunity Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin.*



**NANYANG  
 TECHNOLOGICAL  
 UNIVERSITY**

**Nanyang Assistant Professors**

<http://www.ntu.edu.sg/mse>

Singapore has a dynamic and well-funded research environment to nurture and attract top R&D talent and the Government has set aside S\$13.5 billion over 5 years to develop international research. In tandem, the Nanyang Technological University (NTU) is also making unprecedented research investments, emphasizing cutting-edge research and revolutionary technological innovations across multiple disciplines. It has already attracted world-leading researchers to its ranks.

The School of Materials Science and Engineering (<http://www.mse.ntu.edu.sg/>) in NTU is one of the largest MSE academic institutions in the world, with over 1000 undergraduates, more than 300 PhD students, postdocs, senior research fellows, and 42 full-time faculty. The School has the highest PhDs per faculty in the University and regularly wins large competitive grants by championing disruptive and commercialisable materials science research that has produced several invested start-up companies. We invite outstanding young researchers to apply for the prestigious **Nanyang Assistant Professors** in our School, in areas related to Physics and Chemistry of Materials, Nanomaterials, Materials for Energy and Environment, Electronic Materials, Materials for Sensing, Biomaterials, Defence Materials, or Computational Materials.

Successful candidates will receive start-up research grants of up to **S\$1 million** and an attractive remuneration package with comprehensive benefits that include accommodation subsidies. They will hold tenure-track appointments and play lead roles in developing the University's new wave of Materials Science research. They are expected to have obtained their PhD no more than 10 years ago and ready for independent leadership of their own research groups. Outstanding applicants would also be helped by the School to apply for the **Singapore National Research Foundation Fellowships**, which come with a research grant of up to **S\$2.25 million**.

**Application Procedure**

Applications must be made on prescribed forms (forms available for download at <http://www.ntu.edu.sg/ohr/Career/SubmitApplications/Pages/Faculty.aspx>). The post applied for should be clearly stated. Completed application forms may be submitted by normal mail, fax or e-mail to:

Chairman, Search Committee  
 School of Materials Science and Engineering  
**NANYANG TECHNOLOGICAL UNIVERSITY**  
 50 Nanyang Avenue  
 Block N4.1  
 Singapore 639798  
 Fax: (65) 6790-0921  
 E-mail: [d-mse@ntu.edu.sg](mailto:d-mse@ntu.edu.sg)

[www.mse.ntu.edu.sg](http://www.mse.ntu.edu.sg)



**Positions Available**



Forschungszentrum Jülich, member of the Helmholtz Association, and RWTH Aachen University have set up the strategic research alliance JARA (Jülich-Aachen Research Alliance). This created a new platform of interdisciplinary cooperation opportunities between a university of excellence and one of the largest research centres in Europe.

The Institute of Solid State Research (IFF) at Forschungszentrum Jülich is composed of six experimental and three theoretical departments, which conduct research on condensed matter ranging from atomic principles to practical applications. Within JARA, the JARA-FIT section (Fundamentals of Future Information Technology) provides the research environment for the position that we are looking to fill.

Forschungszentrum Jülich and RWTH Aachen University jointly operate the Ernst Ruska-Centre (ER-C). This national competence and user centre for high-resolution microscopy and spectroscopy with electrons is known for its internationally unique expertise and instrumentation.

In a joint procedure, Forschungszentrum Jülich, together with RWTH Aachen University, is looking for a

**DIRECTOR (m/f)**

for the

**Institute of Solid State Research – Microstructure Research**

who will also act as a Director of the jointly operated

**Ernst Ruska-Centre**

In accordance with the “Jülich Model”, the successful applicant will also be appointed **professor (grade W3) of experimental physics at RWTH Aachen University**.

The applicant should be an internationally respected scientist who will further develop the methods of high-resolution microscopy and spectroscopy with electrons on the very highest level and apply them to current areas of condensed matter research. Within the framework of JARA-FIT, the opportunity is provided to make an essential contribution to the exploration of the fundamentals of future information technologies and to conduct an attractive research programme. Possible research areas, which complement and enrich current activities, include, for example, the physics of oxide heterostructures, semiconductor spintronics systems, carbon-based materials or nitrides. The ability to head an interdisciplinary institute as a member of the board and a willingness to cooperate are essential. The successful applicant will also be expected to adequately contribute to the teaching of experimental physics, for example by holding lectures for the master’s courses in physics and materials sciences.

Successful applicants will have completed a university degree followed by a PhD and should be able to demonstrate additional scientific achievements in the form of a postdoctoral qualification, activities within the framework of a junior professorship or research work at a university, research institution or in another social sphere.

Applications from women are particularly welcome. The implementation of equal opportunities is a cornerstone of our staff policy at Forschungszentrum Jülich for which we have received the “TOTAL E-QUALITY” award. RWTH Aachen University has also received the “TOTAL E-QUALITY” award for its efforts in ensuring equal opportunities for men and women. Applications from women will be given preference in the case of equal suitability, qualifications and experience, unless special reasons concerning the person of a male candidate outweigh these considerations. Attention is drawn to art. 8, para. 1, of the Equal Opportunities Act of the Federal State of North Rhine-Westphalia (LGG).

Applications from suitable candidates with disabilities are explicitly encouraged. This also holds for those with similar incapacities in the sense of art. 2 SGB IX. RWTH Aachen University has been named as a “disability-friendly” employer for its commitment to training and employing severely disabled people.

Applications comprising curriculum vitae, list of publications and short summary of past and planned scientific activities should be sent by **September 1st, 2009** to

Board of Directors  
Forschungszentrum Jülich GmbH  
52425 Jülich  
Germany

Further information:  
[www.fz-juelich.de](http://www.fz-juelich.de) and [www.rwth-aachen.de](http://www.rwth-aachen.de)



THAYER SCHOOL OF  
**ENGINEERING**  
AT DARTMOUTH

**TENURE-TRACK  
FACULTY POSITION**

**Thayer School of Engineering  
Dartmouth College**

The Thayer School of Engineering at Dartmouth seeks to hire a faculty member who can contribute to a distinctive research and education program addressing technology responses to societal energy challenges. The successful candidate will have a doctorate in engineering or closely related field, will show promise of leading an externally-funded research program targeting transformational advances in energy conversion and/or utilization, and will be a gifted teacher with motivation and expertise that complements the Thayer School’s interdisciplinary curriculum. All fields of engineering will be considered. Applications of interest that involve material science and engineering include but are not limited to solar power generation, energy storage, and advanced materials promoting efficient energy conversion and utilization. A hire at the Assistant Professor rank is anticipated, although outstanding candidates at the Associate Professor level will be considered.

Review of applications will begin immediately, and will continue until the position is filled with interview visits anticipated in the fall. A complete CV, research and teaching statements, and contact information for three references should be sent to: Prof. Lee R. Lynd, Energy Search Committee Chair, at Thayer School of Engineering at Dartmouth College, 8000 Cummings Hall, Hanover, NH 03755-8000, or by email at [engineering.faculty.search@dartmouth.edu](mailto:engineering.faculty.search@dartmouth.edu).

*Dartmouth is an equal opportunity/affirmative action employer and has a strong commitment to diversity.*

**Place Your Ad Today!**

**Contact Mary E. Kaufold  
at 724-779-8312**

**or [kaufold@mrs.org](mailto:kaufold@mrs.org)**