



DIRECTOR, MATERIALS & MANUFACTURING DIRECTORATE

An executive with materials and manufacturing expertise is being sought to lead the Materials & Manufacturing Directorate in the Air Force Research Laboratory, Wright-Patterson Air Force Base, Ohio. The directorate leads all US Air Force research and exploratory and advanced development activities relative to materials and manufacturing processes. This encompasses structural materials; functional materials; materials and processes support to acquisition, sustainment, and operational organizations; and advanced manufacturing and supply chain management.

Organizationally, the Directorate is a highly specialized, geographically separate organization with laboratory, office, and support facilities. The assigned work force of approximately 1100 military, civilian, and contractor personnel includes a diverse mix of professional scientists and engineers (most with advanced degrees, many with PhD degrees), as well as managerial, administrative, and technical occupations. The Directorate's annually executes over \$500M/year. The Director provides executive direction for all organizational, technical, and financial aspects of the directorate's planning, coordination, and execution of broad, frequently large-scale and critical R&D activities to advance the nation's technological base. Programs are national and/or international in scope and require extensive coordination and joint actions with aerospace activities, including many federal agencies, industry, and private research organizations. Work is accomplished primarily through contractual agreements, by in-house research, and as direct technical consultation to requesting outside organizations.

US citizenship is required. A Bachelors' Degree in an appropriate professional or scientific discipline is required, an advanced degree is desirable, and a doctorate is highly desirable. This position requires substantial experience in the management of a large, complex, technically-oriented activity. A top-level understanding of the breadth of research, development, and acquisition functions is vital to the overall direction and successful transition of basic and applied research efforts to the operational Air Force. The incumbent is required to exercise a high degree of initiative and possess the ability to make independent decisions. The incumbent must also have the ability and professional stature to support and defend, as well as influence, program and policy decisions at the highest levels of the government, industry and the broader scientific community.

Interested candidates should apply to the forthcoming official advertisement at USAJOBS at <https://www.usajobs.gov/> **SeniorExecutives**.



FEGTEM SPECIALIST / RESEARCH FELLOW

Australian Institute for Innovative Materials
Fixed Term (5 year) Appointment

The Electron Microscopy Centre at the University of Wollongong is a state-of-the-art facility which has been recently established to provide high quality training, microscopy services and support for research, student and industry users.

This is a new position resulting from the need to provide high level service and research support for UOW researchers in the area of aberration corrected

high resolution scanning transmission electron microscopy, utilising highly specialised techniques, such as EELS, EDX and diffraction analysis.

Visit employment.uow.edu.au for a full position description with Selection Criteria. You must address the Selection Criteria as part of your application.

Contact: Professor Elena Pereloma on +61 2 4221 5507
Reference No: 24469

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CONNECT: UOW EMPLOYMENT

UNIVERSITY OF WOLLONGONG 



Career Center

**JOB SEEKERS
MEET YOUR NEXT EMPLOYER!**

We'll show off your talents to the world's most prestigious high-tech firms, universities and laboratories. At the Career Center, you can access many interesting job postings, visit recruitment booths and interview with prospective employers. Please bring extra copies of your resume for your own use.

The Career Center is FREE of charge to all MRS members and those registered to attend the Meeting.

ON-SITE REGISTRATION HOURS
Monday, April 1 1:00 pm–4:00 pm
(Candidate Registration Only)

CAREER CENTER HOURS
Tuesday, April 2 10:00 am–5:00 pm
Wednesday, April 3 10:00 am–5:00 pm

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



Scientists (Assistant, Mid or Senior level)
Argonne National Laboratory,
25 miles southwest of Chicago, Illinois

The Synchrotron Radiation Studies Group of the Materials Science Division at Argonne National Laboratory has immediate openings at both the Assistant Scientist and Scientist or Senior Scientist levels. The successful appointee(s) will perform world-class research aimed at using the unique capabilities of synchrotron sources to create and characterize materials that impact future energy-related applications. We seek outstanding candidates with experience in x-ray imaging, scattering and/or spectroscopy, advanced optical and electrical characterization, and single crystal thin film or bulk crystal synthesis. A portion of the experimental work will be undertaken at the Advanced Photon Source. Excellent skills in oral and written communication are required. The successful candidate must have a strong publication record and experience in writing successful funding proposals. Interested candidates should send a detailed CV, along with a list of publications, and the names and addresses of three references, through the Argonne web site as instructed at <http://web.anl.gov/jobsearch/search.jsp>. Refer to requisition number 320369 MSD. Questions may be directed to Dr. Jeffrey Eastman (jeastman@anl.gov) or Dr. Dillon Fong (fong@anl.gov). We offer an excellent salary, great benefits package and relocation assistance. We have a child care center on site, an exercise facility and we are located in the middle of a large forest preserve and yet close to great suburban neighborhoods with high quality schools.


Argonne is a U.S. Department of Energy laboratory managed by UChicago Argonne, LLC. Argonne is an equal opportunity employer, and we value diversity in our workforce.



VICE PRESIDENT,
Material & Product Development

Polymera, Inc. seeks VP, Material & Product Development, in Hebron, Ohio, responsible for formulation, testing, and quality assurance of proprietary wood and natural fiber polymer composites. Requires PhD degree in Materials Science & Engineering or equivalent degree and minimum four years graduate level research experience in wood and/or natural fiber polymer composites. Send CV to:

Maan Said
 Polymera, Inc.
 511 Milliken Drive,
 Hebron, OH 43025



your job at **TU Delft**

Full Professor of Metals for Extreme Conditions

Faculty/department	Mechanical, Maritime and Materials Engineering
Level	PhD degree
Hours	Maximum of 38 hours per week (1 FTE)
Contract	Tenured
Salary	€4904 to €8622 per month gross

Delft University of Technology works at new ground-breaking insights and solutions to urgent societal problems in the world. Thanks to her faculties and unique large-scale technological research facilities, this university offers world-level multidisciplinary research and education.

The Department of Materials Science and Engineering seeks a motivated candidate of high academic quality to strengthen the department's research activities in the field of Metals for Extreme Conditions and to contribute to the educational programme at the graduate and post-graduate level. The new chair will address microstructural requirements, microstructure properties and metal applications in harsh environmental conditions. The new appointee to the chair of Metals for Extreme Conditions is expected to develop and undertake a research programme in one or more of the following themes: production innovation, applications-related aspects such as energy generation, deep sea exploration, explosive loading, nuclear irradiated materials, replacement of scarce elements in alloy property design or other relevant subjects. The specific focus of the research within these fields will depend upon the expertise and interest of the appointee. It is expected that the appointee will develop activities in both experimental and theoretical aspects of materials science.

For more information, please visit www.jobsindelft.com



Challenge the future



RESEARCH POSITION

**International Center
for Young Scientists**

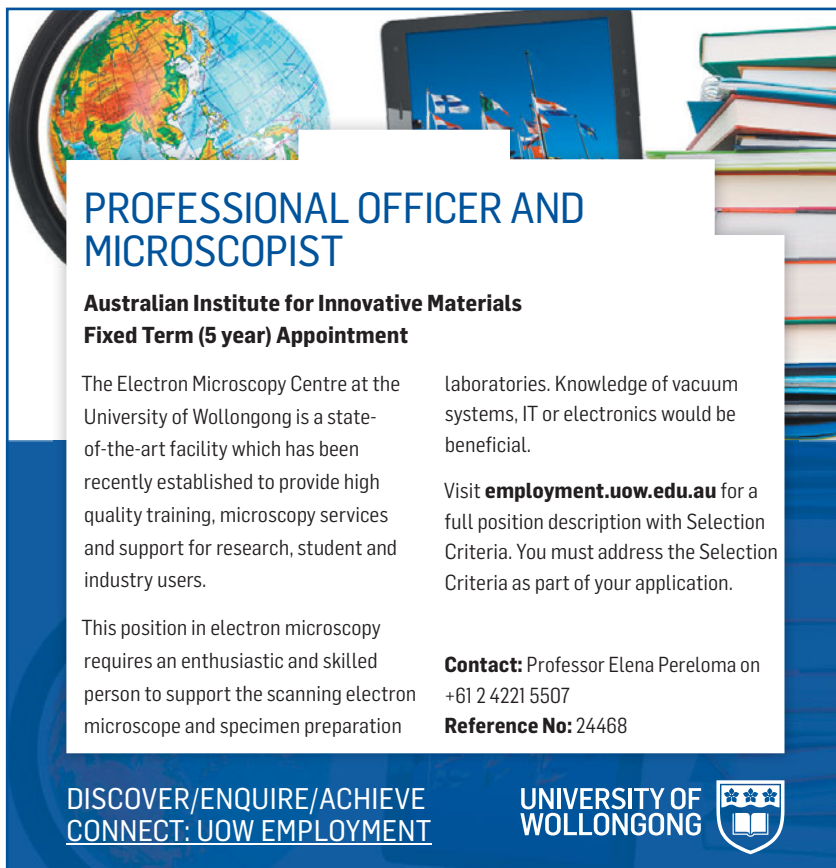
**National Institute
for Materials Science**

The International Center for Young Scientists (ICYS) of the National Institute for Materials Science (NIMS) is now seeking a few researchers. Successful applicants are expected to pursue innovative research on broad aspects of materials science using the most advanced facilities in NIMS (<http://www.nims.go.jp/eng/index.html>).

In the ICYS, we offer a special environment that enables young scientists to work independently based on their own idea and initiatives. All management and scientific discussions will be conducted in English. An annual salary between 5.03 and 5.35 million yen (level of 2012) will be offered depending on qualifications and experience. The basic contract term is two years and may be renewed to one additional year depending on the person's performance. A research grant of 2 million yen per year will be supplied to the ICYS researcher.

All applicants must have obtained a PhD degree within the last ten years. Applicants should submit an application form, which can be downloaded from our web site, together with a resume (CV) and a list of publications. A research proposal on an interdisciplinary or integrated area related to the materials science should also be submitted. The application letter should reach the following address via e-mail or air mail by **March 29, 2013**. Visit our website at <http://www.nims.go.jp/icys/> for more details.

ICYS Administrative Office
National Institute
for Materials Science
Sengen 1-2-1, Tsukuba
Ibaraki 305-0047, Japan
E-mail: icys-recruit@nims.go.jp



PROFESSIONAL OFFICER AND MICROSCOPIST

**Australian Institute for Innovative Materials
Fixed Term (5 year) Appointment**


The Electron Microscopy Centre at the University of Wollongong is a state-of-the-art facility which has been recently established to provide high quality training, microscopy services and support for research, student and industry users.

This position in electron microscopy requires an enthusiastic and skilled person to support the scanning electron microscope and specimen preparation laboratories. Knowledge of vacuum systems, IT or electronics would be beneficial.

Visit employment.uow.edu.au for a full position description with Selection Criteria. You must address the Selection Criteria as part of your application.

Contact: Professor Elena Pereloma on +61 2 4221 5507
Reference No: 24468

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UNIVERSITY OF WOLLONGONG 




RESEARCH SCIENTIST POSITION

College of Engineering

The College of Engineering of Drexel University seeks applications for a full-time Research Scientist to manage a recently acquired ultrahigh-vacuum X-ray photoelectron spectroscopy and diffraction investments. The major core facility includes more than \$13M of shared instrumentation, supported by four professional staff members led by a faculty director, serving more than 230 users annually.

The selected candidate will provide expert, ongoing training and guidance at all levels of graduate and undergraduate students and postdoctoral researchers in the use of equipment, data analysis, interpretation, and training activities. Primary responsibilities include scanning X-ray photoemission spectroscopy, X-ray diffraction, and small angle X-ray scattering instruments, all within shared core facilities at Drexel University. Candidate should have earned a PhD degree in Chemistry, Physics, Material Science and Engineering, or closely related field.

Drexel University's mission is to serve students and society through comprehensive integrated academic offerings enhanced by technology, co-operative education, and clinical practice in an urban setting, with global outreach embracing research, scholarly activities, and community initiatives.

Interested applicants please apply online at www.drexeljobs.com/applicants/Central?quickFind=76780 or visit www.drexeljobs.com and search for Research Scientist, **Requisition #5187**.

Drexel University is an Equal Opportunity Employer.



UC San Diego

DEAN OF THE JACOBS SCHOOL OF ENGINEERING San Diego, California

The University of California, San Diego invites applications and nominations for the position of Dean of the Jacobs School of Engineering. The Dean provides academic, intellectual, and administrative leadership to the School of Engineering and promotes excellence in all aspects of the School's research, teaching, and service missions. As a key member of the University's leadership, the Dean reports directly to the Executive Vice Chancellor of Academic Affairs and represents the School at the campus, local, state, national, and international levels. The Jacobs School of Engineering is committed to academic excellence and diversity within the faculty, staff, and student body (<http://www.jacobsschool.ucsd.edu/diversity>).

Successful candidates should have prior experience in academic administration and a distinguished record of scholarship, teaching, and service appropriate for appointment as a tenured senior professor at UC San Diego. They should also have a proven record in fundraising and financial management. The ideal candidate will have strong demonstrated accomplishments in areas contributing to diversity, equity and inclusion, and a desire to play a leadership role in advancing UC San Diego's commitment to achieving excellence and diversity. The Dean will hold the Walter J. Zable Chair in Engineering and will be appointed to serve at 100% time.

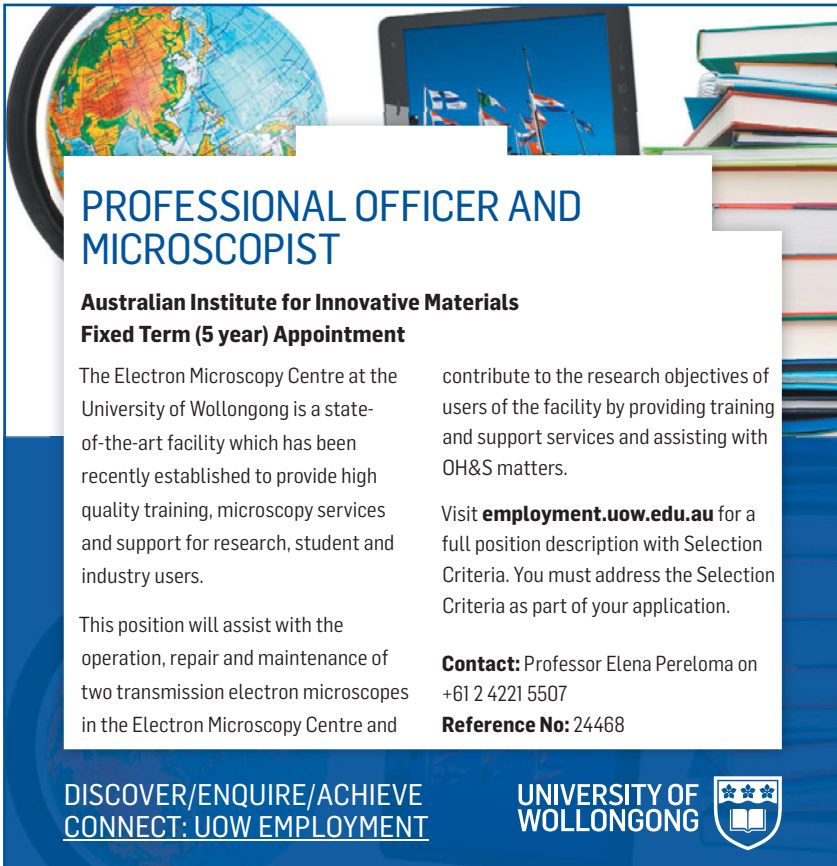
UC San Diego, established in 1960 as part of the 10-campus University of California, has rapidly achieved the status as one of the top institutions in the U.S. for higher education and research. UC San Diego is ranked sixth in the nation in federal research and development expenditures, with annual research funding of approximately \$1 billion over the last three years. The *U.S. News & World Report* 2013 Best Colleges Guidebook ranks UC San Diego as the 8th best public university in the nation. According to the 2010 *National Research Council* rankings, sixty percent of UC San Diego's rated graduate programs are among the top twenty programs in their fields nationwide, and the university's Ph.D. programs were ranked highly in every academic division. UC San Diego is the largest employer based in San Diego County, with an economic impact of over \$20 billion annually. UC San Diego's location on the Torrey Pines Mesa facilitates large-scale research and education collaborations with industry partner institutions including, the Salk Institute of Biological Studies, the Burnham Institute for Medical Research, and The Scripps Research Institute. This concentration of many of the world's best minds in science, engineering and technology creates invaluable learning opportunities for students at both the undergraduate and graduate levels, providing a breadth and diversity that is tremendously beneficial to their education.

The Jacobs School of Engineering is comprised of six academic departments – Bioengineering, Computer Science & Engineering, Electrical & Computer Engineering, Mechanical and Aerospace Engineering, Structural Engineering, and Nanoengineering – each with a full range of undergraduate and graduate programs and research facilities and all ranked in the top 20 nationally. The Department of Bioengineering ranks 1st in the nation for biomedical engineering, according to the 2010 *National Research Council (NRC)* rankings, and the Jacobs School of Engineering ranks 12th internationally, according to the 2012 *Academic Rankings of World Universities* conducted by Shanghai Jiao Tong University in China. With an annual operating budget of \$72 million, and research expenditures of approximately \$163 million in Fiscal Year 2012, the Jacobs School is expanding its areas of innovation and discovery, making significant advances on the educational front, and developing new community partnerships. This is an exciting time of growth and development for the Jacobs School, and the Dean will play a crucial role in leading this growth.

The Search Advisory Committee will begin reviewing candidates in January 2013 and will continue until the position is filled. Nominations and applications (curriculum vitae, cover letter, statement describing contributions to diversity, equity and inclusion, email address, and names of references) should be submitted electronically (PDF files preferred), in confidence, to the Search Advisory Committee Chair, Professor Robert Bitmead, c/o: **David Bellshaw, Regan Gough, and Cati Mitchell, Isaacson, Miller, 1000 Sansome Street, Suite 300, San Francisco, CA 94111, Email: 4743@imsearch.com, Phone: 415.655.4900.**

The University of California, San Diego is an equal opportunity / affirmative action employer with a strong institutional commitment to excellence and diversity (<http://diversity.ucsd.edu>).





PROFESSIONAL OFFICER AND MICROSCOPIST

Australian Institute for Innovative Materials
Fixed Term (5 year) Appointment


The Electron Microscopy Centre at the University of Wollongong is a state-of-the-art facility which has been recently established to provide high quality training, microscopy services and support for research, student and industry users.

This position will assist with the operation, repair and maintenance of two transmission electron microscopes in the Electron Microscopy Centre and contribute to the research objectives of users of the facility by providing training and support services and assisting with OH&S matters.

Visit employment.uow.edu.au for a full position description with Selection Criteria. You must address the Selection Criteria as part of your application.

Contact: Professor Elena Pereloma on +61 2 4221 5507
Reference No: 24468

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UCLA

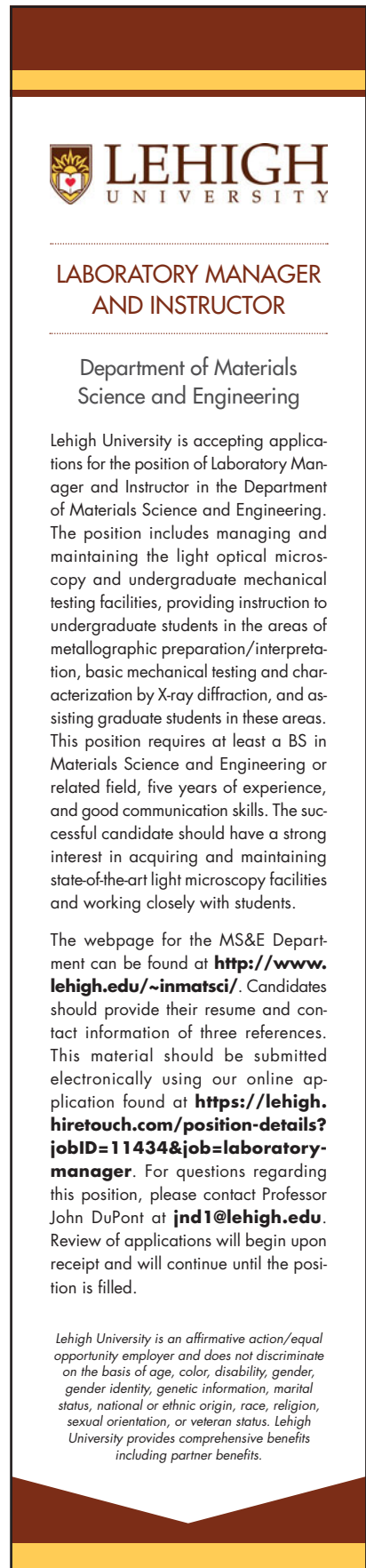
Postdoctoral Research Positions


University of California, Los Angeles (UCLA)

Two postdoctoral research positions are available immediately in the areas of electrochemistry, materials synthesis, characterization and device fabrication, and testing. Candidates should have background and expertise in vacuum technology, electrochemistry, spectroscopic characterization, and device integration. Candidates should have a PhD degree in physics, chemistry, material science, chemical engineering, or related areas and be skilled in technical writing. These positions are renewable on a yearly basis, for up to three years.

Qualified candidates should send their resume and phone numbers and email addresses of three references to Professor Jane P. Chang at jpchang@seas.ucla.edu.

UCLA is an EEO/AA Employer



 **LEHIGH**
 UNIVERSITY

LABORATORY MANAGER AND INSTRUCTOR

Department of Materials Science and Engineering

Lehigh University is accepting applications for the position of Laboratory Manager and Instructor in the Department of Materials Science and Engineering. The position includes managing and maintaining the light optical microscopy and undergraduate mechanical testing facilities, providing instruction to undergraduate students in the areas of metallographic preparation/interpretation, basic mechanical testing and characterization by X-ray diffraction, and assisting graduate students in these areas. This position requires at least a BS in Materials Science and Engineering or related field, five years of experience, and good communication skills. The successful candidate should have a strong interest in acquiring and maintaining state-of-the-art light microscopy facilities and working closely with students.

The webpage for the MS&E Department can be found at <http://www.lehigh.edu/~inmatsci/>. Candidates should provide their resume and contact information of three references. This material should be submitted electronically using our online application found at <https://lehigh.hiretouch.com/position-details?jobID=11434&job=laboratory-manager>. For questions regarding this position, please contact Professor John DuPont at jnd1@lehigh.edu. Review of applications will begin upon receipt and will continue until the position is filled.

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



SERVICE MANAGER | E. A. Fischione Instruments, Inc.

E. A. Fischione Instruments, Inc., located in Export, PA, has provided advanced microscopy and nanotechnology instrumentation to the worldwide scientific community for more than 45 years. In support of its ongoing business growth, the company is seeking candidates with a strong managerial and customer service orientation for the Service Manager position. This individual will be responsible for the entire service component of the business, for ensuring customer satisfaction, and for building customer loyalty.

Responsibilities:

- Develop an acute knowledge of the complete Fischione product line and markets served.
- Coordinate both in-house and field repairs.
- Ensure that service standards are maintained through continual interaction with customer base, benchmark industry best practices, and report findings and process improvement recommendations to the executive team.
- Establish service contracts and rates that maintain profitability.
- Develop and manage the customer service staff.

Requirements:

- Bachelor's degree in engineering or related scientific discipline. Master's degree is preferred.
- Minimum five years technical service experience, particularly with complex, precision, electronic and/or electromechanical devices. An understanding of standard vacuum practice and high-voltage technology is preferred.
- Experience with customer service, process improvement, planning, information analysis, and standards development.
- Prior supervisory experience of technical staff.
- A valid driver's license and an acceptable driving record.
- Able to pass federal background checks for access to government facilities.

If you possess the experience and competencies to be successful in this position, then we would like to meet you. Mail your resume and cover letter to PO Box 1904, Cranberry Township, PA 16066 or email your resume and cover letter to jobs@acuity-hr.com and include "Service Manager" in the subject line.

EOE

TENURE-TRACK FACULTY POSITION

Structural Analysis of Materials

The Faculty of Engineering at McMaster University invites applications for a tenure-track faculty position in the area of Materials Characterization. The appointment is intended to be at the Assistant or Associate Professor level; however, consideration will also be given to exceptional candidates at the Full Professor level. This position will expand upon current McMaster expertise in materials analysis and nuclear materials as well as contributing to the faculty's strategic initiatives in sustainability.

The applicant should have expertise in the field of atom probe field ion microscopy, with a focus on structure and properties relationships of materials. The applicant is expected to develop a strong externally funded research program and capitalize on existing and new infrastructure at the university and in particular at the state-of-the-art Canadian Centre for Electron Microscopy. This centre currently houses two aberration-corrected microscopes, one FIB, three SEM, one Auger Scanning Microscope, and will commission a 3D Atom Probe and a second FIB. Over the last few years, McMaster University has received funding from the Canada Foundation for Innovation, the Ministry of Research and Innovation, and the Natural Sciences and Engineering Research Council totaling approximately \$40M in materials analysis at the Canadian Centre for Electron Microscopy and the Centre for Advanced Nuclear Systems. This position will build upon faculty expertise in materials engineering, as well as facilities and experience available through the Brockhouse Institute for Materials Research.

Applicants must have earned a PhD degree in Materials Science/Engineering, Physics, Applied Physics, or a closely related discipline. The successful applicant will be expected to develop an effective research program and demonstrate a strong commitment to teaching and curriculum development at both the undergraduate and graduate levels. The Faculty expects the successful candidate to become registered with the Professional Engineers of Ontario. Where full licensure is not possible, a limited license is also acceptable.

This position is available as of July 1, 2013 and will remain open until the position is filled. Applications by e-mail are encouraged.

All qualified applicants are encouraged to apply; however, Canadian Citizens and permanent residents will be given priority. McMaster University is strongly committed to employment equity within the community, and to recruiting a diverse faculty and staff. The University welcomes applications from all qualified applicants, including women, members of visible minorities, Aboriginal persons, members of sexual minorities, and persons with disabilities.

Interested applicants should send a letter of application, curriculum vitae, statements of teaching and research interests, a selection of research publications, and the names and addresses of at least three references to:

Faculty Selection Committee
 Department of Materials Science and Engineering, McMaster University
 1280 Main St. West, Hamilton, Ontario, L8S 4L7, Canada.
 Email: matsci@mcmaster.ca
 Reference: **MATERIALS CHARACTERIZATION 2013**





With a staff of 5000, Forschungszentrum Jülich – a member of the Helmholtz Association – is one of the largest interdisciplinary research centres in Europe and stands for the next generation of key technologies. Work with us on the grand challenges in the fields of health, energy & environment, and information technology, as well as on the many and varied tasks of research management.

The Jülich Centre for Neutron Science (JCNS) provides scientists at universities and research institutions in Germany and throughout the world with access to neutron instruments of the highest performance class. In addition, as part of a cooperation agreement with Technische Universität München (TUM), JCNS also performs experiments at the research reactor „Munich II“ (FRM II). At FRM II, primarily basic research is conducted in the fields of physics, chemistry, biology, and materials science.

The JCNS at the FRM II currently has a vacancy for a

PHYSICIST

as second instrument scientist for the cold three-axis spectrometer PANDA

Your Job:

- Participation in the user operation of PANDA at FRM II
- Involvement in the optimization and further instrument developments of PANDA
- Implementation of your own research projects based on the unique strength of PANDA and other JCNS instruments
- Participation in the institute's research programme with a focus on magnetism and correlated electrons systems

Your Profile:

- Excellent and highly motivated Ph.D. in experimental condensed matter physics
- Experience with scattering methods (neutron and/or x-ray scattering)
- Strong interests in studying challenging scientific and technical issues
- Willingness to engage in interdisciplinary collaboration with groups of Forschungszentrum Jülich and external users from research and industry
- Willingness to undertake official travel (e. g. in the context of conducting experiments at other research neutron sources)
- Well-structured and systematic working method

Our Offer:

- Challenging and varied work in an interdisciplinary and international team
- Employment initially for a fixed term of three years, possibility for extension
- Salary and social benefits in conformity with the provisions of the Collective Agreement for the Civil Service (TVöD)

Place of employment: Garching (near Munich)

Forschungszentrum Jülich aims to employ more women in this area and therefore particularly welcomes applications from women.

We also welcome applications from disabled persons.


We are looking forward to your application, preferably online, quoting the **reference code 2013-023**. This job offer is available on our career website www.fz-juelich.de/careers.

contact:

Barbara Kranen

phone: +49 2461 61-9700

www.fz-juelich.de

THE Ames Laboratory
Creating Materials & Energy Solutions

U.S. DEPARTMENT OF ENERGY

**Postdoctoral Research
Associate/Visiting Scientist**

“In-situ Electron Microscopy
of Magnetic Nanocrystals”
Division of Materials Sciences
and Engineering, Ames Laboratory
Iowa State University, Ames, Iowa, USA

The Emergent Atomic and Magnetic NanoStructures group at the Ames Laboratory is seeking a motivated applicant for a postdoctoral research associate/visiting scientist position with a focus on biomimetic magnetic nanostructures. This position, funded by the US DOE, is a one year term appointment with the possibility of renewal for up to three years based upon satisfactory job performance.

Qualifications: 1) A PhD degree in material sciences, chemistry, or related field with experience in HRTEM and STEM specimen preparation and use of analytical techniques (EELS and EDS) demonstrated by high-quality publications; hands-on knowledge of biological samples a plus; 2) Laboratory experience with magnetic nanoparticles materials and their structure-property relationships; 3) Good communication skills; 4) Expertise with Origin, Labview, Matlab, is preferred.

Salary is commensurate with education and experience. Interested candidates should send a cover letter outlining research expertise and interests and availability, a current CV including publications, and names and contact information for three references to Dr. Tanya Prozorov at tprozoro@ameslab.gov. Starting date is as soon as possible and the search continues until vacancy is filled.

*Ames Laboratory/Iowa State University
is an AA/EEO employer.*