

Positions Available

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RWTH AACHEN UNIVERSITY

Full Professor (W3) in Materials Physics

Faculty of Geosciences and Materials Engineering

We are seeking qualified applicants for teaching and research in the area of Materials Physics with an outstanding record of scholarship in the area of "Materials Design by Microstructure Engineering". The starting date is Aug. 1st, 2012. The appointee is encouraged to start a parallel professorship Aug. 1st, 2011. Candidates are internationally renowned researchers with an excellent scientific track record in the field of microstructure engineering of materials. Potential research areas include: Metallic materials as well as composite materials. Candidates should be open to address materials related global challenges within larger cooperations across faculty borders, especially in the framework of the Jülich Aachen Research Alliance (JARA).

The successful candidate is expected to teach materials physics at the undergraduate and graduate level.

A Ph.D. degree is required; additionally, Habilitation (post-doctoral lecturing qualification), an exemplary record of research achievement as an assistant / an associate / a junior professor or university researcher and/or an outstanding career outside academia are highly desirable. Ability in and commitment to teaching are essential. German is not necessary at first but will be expected as a teaching language within the first 5 years.

The application should include supporting documents regarding accomplishments in teaching.

Please send a cover letter stating research aims and a CV to: An den Dekan der Fakultät für Geosciences und Materialtechnik der RWTH Aachen, Prof. Dr. B. Friedrich, Templergraben 55, D-52062 Aachen, Germany. The deadline for applications is 01.10.2010.

The RWTH Aachen aims to increase the number of women in areas in which they are under-represented, thus women are strongly encouraged to apply. For further information please see: <http://www.rwth-aachen.de/equality>

The RWTH Aachen aims to integrate persons with disabilities, thus persons with disabilities are strongly encouraged to apply. For further information please see: <http://www.rwth-aachen.de/disabilities>



FACULTY POSITION Transmission Electron Microscopy

The Materials Science and Engineering Department at Virginia Tech announces a tenure-track faculty opening in transmission electron microscopy. This person will be hired at the level of Assistant or Associate Professor and work closely with the Nanoscale Characterization and Fabrication Laboratory, a part of the Virginia Tech's Institute for Critical Technology and Applied Science.

He/she is expected to have completed a PhD degree in materials science and engineering or a related discipline, and have at least three years of TEM research experience. The successful candidate will be responsible for establishing a research program, teaching, and operating an FEI Titan TEM with associated analytic equipment and software, as well as the possibility of other analytic TEMs. The MSE Department has 18 faculty, eight of whom are jointly appointed with other departments, approximately 100 undergraduate students, and 55 graduate students. Additional details are available at www2.mse.vt.edu.

Applicants should apply at www.jobs.vt.edu to **posting number 0100357** and include a resume, a two-page statement describing research and teaching interests, and the names of three references. Initial review of applications will begin on **August 15, 2010**, and will continue until the position is filled.

Virginia Tech is an Equal Opportunity/Affirmative Action Institution.



POSTDOCTORAL APPOINTEE

The Idaho National Laboratory has an opening for a Postdoctoral Appointee in the area of laser-based characterization of mechanical and thermal properties. This position is co-sponsored by the Fuel Cycle Research and Development program and the Center for Materials Science of Nuclear Fuel. The candidate must have completed a PhD degree in Materials Science, Physics, Mechanical Engineering, or a related field. The candidate should have a strong background in the development of continuum based models and/or a strong background in optics. The main objective of this project is to use laser ultrasound and thermal wave imaging to characterize materials in extreme radiation and temperature environments. The candidate is expected to work in an interdisciplinary environment with a team of researchers having Physics, Materials Science, and Electrical Engineering backgrounds.

Please send curriculum vitae, summary of research plans, and list of three or more references to Vanessa Van Dyk, PO Box 1625, MS 3790, Idaho Falls, ID 83415 or email to Vanessa.VanDyk@inl.gov.

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Positions Available



Kuwait Institute for Scientific Research

KISR has vacancies in the following fields:

P O S I T I O N S A V A I L A B L E

INORGANIC CHEMISTRY

Major Duties:

Developing, producing, characterizing, and applying different types of nanomaterials and quantum dots using chemical route (sol-gel technique) of fabrications.

Qualifications:

Applicants should have a PhD degree in Inorganic Chemistry specialized in soft chemistry, sol-gel colloids, nanoparticles, and nanomaterials with a minimum of 15 years of experience. Applicants should also have a strong list of publications with at least 30 papers published in international scientific journals. The successful candidate should have strong leadership qualities, demonstrated skills in proposal writing, and the ability to attract research funding.

**INORGANIC CHEMISTRY/
SOLID-STATE PHYSICS**

Major Duties:

Developing, producing, characterizing, and applying different types of nanomaterials and quantum dots using chemical route (sol-gel technique) of fabrications.

Qualifications:

Applicants should have a PhD degree in Inorganic Chemistry OR Solid-State Physics specialized in molecular chemistry, colloids, nanoparticles, nanotubes, quantum dots, and nanocrystals with a minimum of five years of experience. Applicants should also have a strong list of publications, keen leadership qualities, demonstrated skills in proposal writing, and the ability to attract research funding.

KISR offers attractive tax-free salaries commensurate with qualifications and experience that include: gratuity, free furnished accommodations, school tuition fees for children, six weeks annual paid vacation, air tickets, and life insurance.

Interested applicants are requested to send their curriculum vitae with supporting information not later than one month from the date of this publication to:

Personnel Manager
Kuwait Institute for Scientific Research
P.O. Box 24885
13109 Safat, Kuwait
E-mail: employment@safat.kisr.edu.kw
Fax: (00965) 24989389

For further information, please visit our web site at www.kisr.edu.kw.



POSTDOCTORAL RESEARCH ASSOCIATE
School of Mechanical, Aerospace,
Chemical and Materials Engineering
Arizona State University

A postdoctoral research associate position is available at Arizona State University to work on the application of electron energy-loss spectroscopy (EELS) to carbonaceous aerosols. The primary research focus will be the development and application of electron energy-loss spectroscopy to carbonaceous nanoparticles and aggregates. The successful candidate will use atomic resolution imaging and electron energy-loss spectroscopy to determine the optical properties of carbonaceous aerosols. Candidates should have a PhD degree in Physics, Materials Science, or related disciplines. The position requires extensive experience in transmission electron microscopy and electron energy-loss spectroscopy. Experience working with low-loss EELS and monochromators is also preferred. This provides an opportunity to work on cutting-edge research related to climate change. ASU is a leader in the field of transmission electron microscopy and part of this work will be performed on state-of-the-art aberration corrected, monochromated instruments.

This postdoctoral position is available immediately, will be renewable on an annual basis, and is anticipated for at least two years. Compensation will be commensurate with qualification and experience. Health benefits will also be provided. The position is open until it is filled.

Interested candidates can apply by email by sending a cover letter, CV with a complete list of publications, and contact information of three professional references to: Prof. Peter A. Crozier, School of Mechanical, Aerospace, Chemical and Materials Engineering, Arizona State University, P.O. Box 876106, Tempe, AZ 85287-6106, email: crozier@asu.edu.

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

POSTDOCTORAL POSITIONS
Department of Chemistry
University of Southern California

Postdoctoral positions are immediately available for fuel cell/energy storage research at the University of Southern California, Department of Chemistry, Los Angeles, to work with Prof. S.R. Narayan. Candidates proficient in material synthesis, thin-film deposition, and electrochemical evaluation techniques may apply with CV to sri.narayan@usc.edu.

The University of Southern California is proudly pluralistic and firmly committed to providing equal opportunity for outstanding men and women of every race, creed, and background.

POSTDOCTORAL POSITION
Seoul TechnoPark

Seoul TechnoPark (<http://www.seoultp.or.kr>) is a business network base of industry, research, and government in the Seoul region where the university, company, and research center participate with the support of the government and Seoul City. The clean room is equipped in the complex established at the campus of Seoul Industry University. Practical production (research) of micro system packaging process equipment, MSP technology support center establishment, and operation of NIT unified university operation are being performed.

There is an opening for a postdoctoral fellow in the R&BD Division at Seoul TechnoPark for next generation microelectronics packaging. Candidates for this position must have an earned doctorate in materials science, electronic engineering, physics, or a related field, with expertise in the field of electronic packaging preferred. The main duty is conducting research on the field of microelectronic packaging. A contract period will be for a minimum of one year and can be renewed after a yearly review. Salary and benefits will depend on a candidate's background and this will be communicated after the first review process. To apply, please send a single PDF (including a detailed resume, list of relevant publications, and the names and contact information for at least two references) via email to Prof. Sarah Eunkyung Kim at eunkyung@snut.ac.kr.

We offer equal career development opportunity to employees and value diversity in our workforce.

Positions Available



THE UNIVERSITY OF TOLEDO

**FACULTY POSITIONS
Photovoltaics**

The Department of Physics and Astronomy at the University of Toledo (UT) invites applications for three faculty positions (**one Endowed Chair and two Junior positions**) to begin August 2010. One position, the Ohio Research Scholar Endowed Chair in Photovoltaics (PV), may be connected to one or both of the Junior Positions if appropriate, although this is not required.

The successful applicants are expected to participate in a broad statewide initiative in PV as members of the Wright Center for Photovoltaics Innovation and Commercialization (www.pvic.org). Joint appointments in other departments/colleges and in UT's School of Solar and Advanced Renewal Energy are likely, and some teaching at the undergraduate and graduate level will be expected as well. Candidates are sought with exceptional experience and qualifications in any area(s) of PV. Successful candidates will desire to collaborate broadly with university colleagues and industrial partners on PV science and technology and plan to establish world-class infrastructure and capabilities to fabricate and/or analyze PV materials, interfaces, and/or device structures. They will also be expected to involve graduate and undergraduate students in their research program.

The Ohio Research Scholar Endowed Chair and the Junior positions will be supported by significant start-up packages with funds from the Ohio Department of Development and the University. These positions are part of an ongoing effort by

the State of Ohio and the University of Toledo to maintain and grow Photovoltaics excellence and leadership in Northwest Ohio.

A PhD degree in Physics, Chemistry, Materials Science, or a closely related field is required, as well as research experience beyond the PhD. A strong track record of external research support is required for the senior position, whereas candidates for the other two positions must demonstrate considerable potential for attracting external support (an existing track record is a plus). We encourage women and minority candidates to apply.

Requests for more information and application packages should be sent by email to pvic_hiring@utoledo.edu, or mail to Physics Search, Department of Physics and Astronomy, Mailstop 111, 2801 W. Bancroft Street, Toledo, OH 43606-3390.

The application package (one pdf document) should include a cover letter stating the position(s) of interest, a CV, a research plan (3 pages max), a teaching statement (1 page max), and the names and contact information of at least three references who have been requested to submit letters on behalf of the applicant. Individual applications will begin to be reviewed as soon as complete, including the receipt of three reference letters. Consideration of applications will begin on June 15, 2010 and continue until the positions are filled.

The University of Toledo is an Equal Access, Equal Opportunity, Affirmative Action Employer and Educator.

UNIVERSITY of
UF | FLORIDA

POSTDOCTORAL RESEARCH POSITIONS

Department of Materials Science
and Engineering
University of Florida

The Department of Materials Science and Engineering at the University of Florida invites applications for two Postdoctoral Research Associate positions in the area of organic electronics. Candidates are expected to have research experience in the following areas: processing and fabrication of organic electronic devices, device physics, optical and electrical characterization, organic light emitting diodes, organic photovoltaics, nanoparticle synthesis, and quantum dot devices. The successful candidates are expected to be highly motivated individuals with good communication skills.

Applicants should send a CV along with a list of publications to Professor Franky So at fso@mse.ufl.edu. Please reference "Postdoc Position" in the subject line.

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