



UNIVERSITY OF PITTSBURGH CENTER FOR ENERGY

R.K. Mellon Endowed Faculty Positions in Energy

As part of the University of Pittsburgh's strategic expansion of its Center for Energy (www.energy.pitt.edu), the Swanson School of Engineering invites exceptional applicants for endowed faculty positions at all ranks in the following key research areas:

- **Energy delivery and reliability**, with an emphasis on electric power transmission and distribution systems, advanced power electronics technologies (FACTS and DC systems), power system modeling and analysis, power system operation and control, and renewable energy integration.
- **Materials for energy-related applications**, with an emphasis on experimental and/or computational efforts on structural and functional materials used in harsh service environments, and therefore including corrosion engineering, catalysts, energy storage, thermo-electrics and sensors.

These key areas also complement our existing and emerging research and education activities in *carbon management and utilization, unconventional gas resources, and direct energy conversion and recovery*.

Established as part of a recent \$22 million gift from the Richard King Mellon Foundation, a total of four endowed faculty positions are available: two Professor-level appointments as *R.K. Mellon Chairs in Energy* and two Assistant/Associate Professor appointments as *R.K. Mellon Faculty Fellows in Energy*.

The successful candidates will greatly benefit from the resources fostered by the University of Pittsburgh's extensive facilities, research partnerships, and close proximity to numerous energy-related companies and research laboratories. For instance, the Department of Energy's National Energy Technology Laboratory (NETL) recently formed a Regional University Alliance (RUA) for energy technology innovation that is in partnership with the University of Pittsburgh and four other nationally recognized universities.

Interested candidates or candidate teams should apply with a **single pdf file** of the following: a cover letter; a full curriculum vita; statements describing teaching and research interests and plans; copies of three representative publications; and the names and contact information for at least three references. Questions and nominations should be addressed to **Prof. Brian Gleeson, Director of the Center for Energy at cfenergy@pitt.edu**.

For the R.K. Mellon Chair in Energy position, please apply at: RKMChairSearch@engr.pitt.edu

For the R.K. Mellon Faculty Fellow in Energy positions, please apply at: RKM FellowSearch@engr.pitt.edu

Screening begins immediately and will continue until the search is closed. The University of Pittsburgh is an Affirmative Action, Equal Opportunity Employer.

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TENURE TRACK POSITION 2013

Institute of Innovative Science and Technology

Tokai University is currently recruiting one tenure-track researcher for 2013 at the Tokai's IIST for a mentor researchers' development program that cultivates researchers who can conduct research of international stature. This recruitment is being carried out under the "Improvement of Research Environment for Young Researchers Program" supported by the Special Coordination Funds for Promoting Science and Technology, the Ministry of Education, Culture, Sports, Science and Technology. For more details, visit our website at <http://www.u-tokai.ac.jp/tuist/english/>.

Research Field: Areas related to science and engineering

Qualifications: A doctoral degree obtained preferably within 10 years, more than three years of work experience as an assistant professor, a postdoctoral fellow or an equivalent position, and significant accomplishments in research are required. Japanese language ability is not required, but most communication during the tenure-track is in Japanese or English.

Term of Employment: April 1, 2013 through March 31, 2018 on an annual contract basis.

Application Documents: a) Prescribed application form downloaded from our website; b) five representative papers; and c) three letters of recommendation to be sent directly from your referees to us. Additional documents may be requested during the selection process.

Deadline: October 1, 2012, 5PM at Japan Standard Time

Submission of Application: Email your application documents to liist-office@tsc.u-tokai.ac.jp and send the hardcopies of your documents by postal mail with delivery confirmation (registered mail, etc.) to **Tokai University Institute of Innovative Science and Technology, 4-1-1 Kitakaname, Hiratsuka City, Kanagawa 259-1292 JAPAN.**



ASSISTANT PROFESSOR

Department of Mechanical Engineering

Kyushu University has one Assistant Professor position available in the Hydrogen Utilization Engineering area, Department of Mechanical Engineering, Graduate School of Engineering.

Number of Positions: 1 Assistant Professor

Laboratory: Hydrogen Utilization Engineering, Department of Mechanical Engineering, Faculty of Engineering, Kyushu University

Research Field: Hydrogen Utilization Processes (Fuel cell related functional materials, reaction processes, electrochemistry, related technologies in hydrogen energy system, including e.g. advanced analytical studies with transmission electron microscope, visualization and *in-situ* analysis, materials studies for e.g. solid oxide fuel cells. We welcome researchers in the fields of electrochemistry, organic materials engineering, microscopy, catalysis, solid state thermodynamics, as well as solid state ionic.)

Application Deadline: Completed applications must arrive at Kyushu University by Wednesday, November 21, 2012 (Japan time). (*Deadline extended*)

For more information about the positions, application materials, etc., visit <http://kobo.jimu.kyushu-u.ac.jp/pdf/2012061910118.pdf>.

Kyushu University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.



KYUSHU UNIVERSITY



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.

The JCNS currently has a vacancy at the FRM II reactor in Garching (near Munich) for a

PHYSICIST (f/m) (with PhD) **as second instrument responsible for the diffuse scattering time-of-flight spectrometer with polarization analysis (DNS)**

Job Description:

- Participation in the user operation of the DNS at FRM II
- Involvement in the optimization and further instrument developments of DNS
- Involvement in the development of software systems for data reduction, visualization and data analysis of single-crystal time-of-flight spectroscopy based on large arrays of position-sensitive detectors
- Implementation of your own research projects based on the unique strength of DNS
- Participation in the institute's research programme with a focus on magnetism and correlated electrons systems.

Your Profile:

- Excellent and highly motivated PhD in experimental condensed matter physics
- Extensive 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 with 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.

Please send your application following the specific requirements, quoting the **reference code 156/2012MR** to:

Forschungszentrum Jülich GmbH

Geschäftsbereich Personal
- Personalentwicklung -
52425 Jülich
Germany

contact:
Barbara Küppers
phone: +49 2461 61-5358
www.fz-juelich.de



SOLID MECHANICS SCIENTIST **U.S. Army Research Office** **Research Triangle Park, NC**

This position involves leading, developing, managing, and overseeing the Army's extramural basic research program in solid mechanics. Work involves identifying and evaluating scientific breakthroughs, discoveries, and opportunities with potential application to Army materiel systems, promoting close relationships between the Army and scientific, educational, and research institutions, and organizing and conducting workshops, conferences and symposia related to exciting new research initiatives within solid mechanics. As the Army's advocate for basic research in solid mechanics, coordinates with other government agencies to set the national research agenda for research initiatives that will have major impact on new technologies and capabilities for national defense.

Applications are being solicited by the U.S. Army Research Office in Research Triangle Park, North Carolina for a scientist with the qualifications of Mechanical Engineer, Materials Engineer, Aerospace Engineer, or General Engineer. You must meet the qualifications of at least one discipline to apply.

There is one vacancy at either the DB-04 level (GS 14/15 equivalent), \$99,638 to \$152,364 per annum; or DB-03 level (GS 12/13 equivalent), \$70,906 to \$109,611 per annum. Starting salary includes a locality adjustment and will depend upon qualifications and salary history.

Interested individuals must apply at www.usajobs.gov. Announcement numbers are **NEAC12960722652584D** for the DB-04 and **NEAC12960722651178D** for the DB-03. This position is open to application from July 16, 2012 to September 13, 2012. If you have questions, contact Bruce Spruell, HR Specialist at 301-394-3396; e-mail: bruce.d.spruell.civ@mail.mil or Wanda Wilson, Administrative Officer, Army Research Office at 919-549-4296; e-mail: wanda.e.wilson.civ@mail.mil.



Honda Research Institute USA

VISITING SCIENTIST
Laboratory of Materials Science

The Laboratory of Material Science at Honda Research Institute USA, Inc., located in Columbus, OH, seeks a qualified candidate for a position as a visiting scientist, to begin from November, 2012. The position is open for a two-year appointment with possible extension at company discretion. Areas of interest include synthesis and processing of carbon nanostructures (CNT, graphene) and related nanoscale characterization techniques.

- ▶ Applicants must possess a PhD degree in a relevant field of materials science, physics, or chemistry, and have had postdoctoral experience. Knowledge in electrochemistry is preferable. Team working and good communication skills are necessary. Work authorization required.
- ▶ Applicants should forward CV, a list of publications, one-page statement of research interest, and complete contact information for three references via e-mail to career2012@honda-ri.com. Please refer to **job number P11T02** in subject line and name attachments using the following template as an example: `FirstName.LastName.UniversityName.cv.pdf`.



FACULTY POSITIONS
Department of Materials Science
and Engineering

National Taiwan University

The Department of Materials Science and Engineering at the National Taiwan University has several tenure-track faculty positions available, starting from August 2013. Candidates are expected to have a PhD degree in a science/engineering discipline and should be experts in any of the following areas: metal & metallurgy, electronic materials, optoelectronic materials, energy materials, magnetic materials, materials processing, advanced analytical techniques, simulation, or advanced novel materials.

Interested candidates should submit, before the **November 30, 2012** deadline, his/her c.v., copy of PhD degree diploma, e-mail addresses of three references, undergraduate and graduate transcripts, one to five off-prints of a recent publication, a brief statement of future research interests, and a brief statement of teaching plan to:

Faculty Search Committee
Department of Materials Science and Engineering
National Taiwan University
1 Roosevelt Road, Sec. 4
Taipei 106, Taiwan, R.O.C
mseantu@ntu.edu.tw
<http://www.mse.ntu.edu.tw>



FRONTIER INSTITUTE
OF SCIENCE AND TECHNOLOGY
前沿科学技术研究院
FIST

**Center Directorships | Tenure-track Faculty
Positions | Postdoctoral Research Fellows**

Frontier Institute of Science and Technology (FIST)
Xi'an Jiaotong University (XJTU)

Valid through December 31, 2012

FIST is a large selective investment by XJTU in an effort to establish a world-class, multi-disciplinary research institute. To achieve this goal, FIST is setting up 14 research centers of excellence in Mathematics, Physics, Chemistry, Bio-Science/Life-Science/Basic-medical-Science, and Materials Science, and adopts a new management system similar to that of most U.S. universities. Seven out of the 14 planned centers have been established recently, and FIST is now recruiting the remaining seven Center Directors (either full-time or honorary). In addition, FIST invites applications to fill its multiple, full-time tenure-track faculty positions at all levels (from lab director to group leader), as well as postdoctoral positions. See our Chinese ad at <http://fist.xjtu.edu.cn/zp.php?id=5> for details.

An eligible candidate for the Center Director position should be an internationally renowned scientist and established leader in his/her field, with the ability and will to build his/her center into an internationally recognized center of excellence. Successful candidates will be provided with a sizable start-up package to establish a research center, together with a salary (500k-800k RMB annually for full-time directors) or an honorarium commensurate with the working days (for honorary directors). See our Chinese ad at <http://fist.xjtu.edu.cn/zp.php?id=5> for details.

In addition to the Center Director positions, FIST also invites applications in the above-mentioned areas to fill its full-time, tenure-track faculty positions at all levels, from lab director to group

leader. Applications for postdoctoral positions are also welcome. An eligible faculty candidate should have a track-record for excellence in research and the potential to lead a lab or a group to success. Successful candidates will be provided with a competitive start-up package including an annual salary of 100k-500k RMB, 15-200m² lab space, and enough start-up fund, together with many other benefits. Position level and start-up package will vary with the candidate's qualification. See our Chinese ad at <http://fist.xjtu.edu.cn/zp.php?id=5> for details.

Interested individuals should set up their free ResearcherID webpage on <http://www.researcherid.com/>. Please send your ResearcherID citation information along with a cover letter, CV, and a list of ten representative publications to:

Dr. Xiangli Meng
Frontier Institute of Science and Technology (FIST)
Xi'an Jiaotong University
1 West Building, 99 Yanxiang Road
Yanta District, Xi'an, Shaanxi Province
P.R. China 710054
Tel/Fax: +86 29 83395131
Email: fist@mail.xjtu.edu.cn

XJTU is an AA / EOE employer.

POSITIONS AVAILABLE SSN College of Engineering

Rajiv Gandhi Salai (OMR), Off Chennai, Tamilnadu, India

SSN College of Engineering (SSN) is a premier engineering school in South India approved by the All India Council for Technical Education (AICTE), accredited by the National Board of Accreditation and affiliated to Anna University Chennai. It was founded in 1996 by Dr. Shiv Nadar, Chairman, HCL Technologies Ltd. SSN, situated on a sprawling campus of 250 acres in the Cyber corridor, Chennai City, South India and equipped with a state-of-the-art infrastructure, was established with the vision of providing an engineering education of global standard at an affordable cost. This has defined the philosophy of SSN which is ranked amongst the top 10 private engineering schools in India within a short span of 16 years since inception. The intellectual capability of the school is further supported by the SSN Research Centre headed by people of international eminence in the field of science and technology.

SSN offers eight undergraduate programs and eight graduate programs in Engineering.

Undergraduate Programs (BE/B.Tech): Biomedical Engineering, Chemical Engineering, Civil Engineering, Computer Science & Engineering, Electrical & Electronics Engineering, Electronics & Communication Engineering, Information Technology, and Mechanical Engineering.

Graduate Programs (ME): Applied Electronics, Communication Systems, Computer & Communication, Computer Science & Engineering, Manufacturing Engineering, Power Electronics & Drives, Software Engineering, and VLSI Design.

To further enhance the resources in the areas of quality instruction and research, SSN invites applications for the following positions:

Professors/Assistant Professors

- PhD degree holders with instructional and research focus

Research Scientists

- PhD, MS, ME/M.Tech degree holders or equivalent degree in Engineering (Energy Systems, Electronics/Communication Engineering, Mechanical Engineering, Material Science, Metallurgy, Chemical Engineering disciplines)
- PhD in Physics (solid state, semiconductors specialization), including at least eight years professional R&D experience in the areas like PV semiconductor physics/technology, solar thermal power systems, or energy system modeling and design.

Remuneration will be attractive apart from perks.

The CV can be emailed to subramaniann@ssn.edu.in

Telephone: +91 44 24982656, 24986474

www.ssn.edu.in



RESEARCH SCIENTIST

Materials Development
and Characterization Center

The research scientist (RS) will act as the manager for the Materials Development and Characterization Center, located on the main campus of Texas A&M University, with about 3,000 feet² lab space. The RS will oversee equipment maintenance; training of graduate students in instrument use; conducting experiments for interested parties; overseeing the use of the equipment by others to assure the proper use; scheduling, billing, ordering and inventory, and routine equipment maintenance. The RS will work with the center director to conduct research, develop research and instrumentation proposals, and write joint research manuscripts. When necessary, the RS will attend training courses to better learn instrument use. Currently available major instruments include a state-of-the-art XRD system, one SQUID-VSM, a spark plasma sintering system, two large vacuum arc melting systems, a large vacuum glove box, and various environmental furnaces.

Candidates should have a PhD degree with two years of experience, MS with at least five years of experience, or BS with at least seven years of experience in materials science and engineering, mechanical engineering, chemical engineering, chemistry, engineering physics, or related discipline. Send CV and contact information of three references to Prof. Ibrahim Karaman, ikaraman@tamu.edu.



EO/AA employer