



FACULTY | ACADEMIC POSITIONS

SCHOOL OF PHYSICAL SCIENCE AND TECHNOLOGY
SHANGHAITECH UNIVERSITY

ShanghaiTech University (www.shanghaitech.edu.cn) is a research university comprising four schools: Physical Science and Technology (SPST), Information Science and Technology, Life Science and Technology, as well as Entrepreneurship and Management, with expected total enrollment of 4,000 graduate and 2,000 undergraduate students. Around 300 first-rate graduate students have officially started their programs on campus in Fall 2013. The admission of undergraduate students with competitive and innovative standards is currently ongoing. Jointly sponsored by the Chinese Academy of Science and Shanghai Municipal Government and officially established in 2013, ShanghaiTech fosters a vision of a globally recognized research university for its size and profound integration of education, research, and innovation.

ShanghaiTech strives to create a dynamic people-centered hub, where innovative research, education, and community service meet to provide a multi-disciplinary approach to learning and to solving problems facing the society. As a young university, we have successfully recruited over 50 high-caliber tenure-track faculty members so far. We set up policies unique in China to nurture an academic atmosphere for the best practices of research, teaching, and learning. Additionally, ShanghaiTech will build state-of-the-art research and teaching facilities, including cutting-edge research equipment, modern libraries, and classrooms. Shared governance will be a part of the campus culture.

The School of Physical Science and Technology has successfully recruited a dozen outstanding full-time faculty members in 2013, and plans to systematically establish a globally competitive research/educational institution with about 100 full-time tenured and tenure-track faculty members, 1,200 graduate, and 750 undergraduate students. The School encourages interdisciplinary research, particularly that related to the topics of energy, materials, and environment.

We are currently seeking applicants for four different types of positions:

- 1) Tenure-track and tenured professors;
- 2) Long-term positions for undergraduate laboratory lecturers;
- 3) Long-term positions for research associates and facility managers;
- 4) Postdoctoral scholars.

1) Tenure-track and tenured professors

QUALIFICATIONS Successful applicants should have a doctoral degree in the physical sciences or engineering, as well as post-doctoral experience for the junior level position. They are expected to establish an independent, dynamic, and internationally recognized research program. Other duties include supervising graduate students and teaching two courses each year. Applicants for the senior positions are expected to be leading scientists in their research fields. We particularly welcome those with research interests in the science and technology related to energy, materials, and environment to apply.

INITIAL RESEARCH SUPPORT ShanghaiTech will provide each new junior faculty member with an initial start-up fund of 2 million CNY (~320k USD) and subsidies for one research associate and one postdoc. Necessary costly equipment will be covered by the School. Research lab spaces (~100 m²) will be provided to match

the research needs. Besides the internal facilities and resources of the SPST, those administered by the Chinese Academy of Sciences, including the Shanghai Synchrotron Radiation Facility and the National Center for Protein Science Shanghai, will also be readily accessible to our faculty.

COMPENSATION AND BENEFITS The starting salary will be competitive and commensurate with the candidates' qualifications and experience. We offer a comprehensive benefit package including health and retirement benefits, as well as on-campus housing. ShanghaiTech will also encourage the candidates to apply for various national and local Talent Programs.

INSTRUCTIONS FOR APPLICANTS Applications should include a curriculum vitae, a statement of research interests (two to three pages), and the names and addresses of three references. These materials should be sent to Dr. Zhou Qing at spst@shanghaitech.edu.cn. Review of applications will continue until all positions are filled. Up-to-date details about the non-faculty positions are covered by the following webpage: [HTTP://WWW.SHANGHAITECH.EDU.CN/EN_NEWSMORE.ASP?TYPE=ANNOUNCEMENT](http://www.shanghaitech.edu.cn/en_newsmore.asp?type=announcement)

2) Long-term positions for undergraduate laboratory lecturers

3) Long-term positions for research associates and facility managers

4) Postdoctoral scholars in the areas broadly related to energy, materials, and environment.

Interested candidates can also visit us for more information at our recruitment booth and reception during the Materials Research Society Spring Meeting in San Francisco, April 22-23, 2014.

ASSISTANT PROFESSOR IN BIO-BASED MATERIALS

School of Environmental and Forest Sciences

Search Number:AA3724

UNIVERSITY of WASHINGTON

The University of Washington is embarking on an ambitious program to enhance its research and teaching capabilities in the area of sustainable production of fuels and products from biomass. As part of this initiative, the School of Environmental and Forest Sciences (SEFS) invites applications or nominations for a full-time (100% FTE) tenure-track faculty position to begin Autumn 2014. The position is at the Assistant Professor level. This position is part of a University of Washington/College of the Environment initiative to develop teaching and research capability in the areas of renewable energy, the environment, and sustainable technologies. Additional information about SEFS can be found at <http://www.sefs.washington.edu/>.

Applicants with expertise in renewable materials from biomass will be considered; preference will be given to candidates with demonstrated capabilities in the area of manufacture of bio-based materials. A PhD degree in applied chemistry, chemical engineering, mechanical engineering, material science, or other closely related field is required. A bachelor's degree in engineering is strongly preferred. Applicants with a background in paper and other fiber based materials—including nanomaterials—are encouraged to apply.

The College of the Environment and SEFS are dedicated to creating a climate of engagement, actively seeking to enlarge the boundaries of diversity and highlighting the crucial roles that under-represented groups play in experiencing, documenting, understanding, and solving environmental challenges. All applicants must have a demonstrated willingness to work collaboratively with faculty from a wide range of disciplines, culture, and academic backgrounds; and advise and teach a student body which is diverse with respect to socio-economic status, culture, and career path.

University of Washington faculty engage in teaching, research, and service. This position requires developing a strong, externally funded research program. Candidates must demonstrate outstanding potential for high impact research as judged, in part, by their publication record. There will be numerous opportunities for interaction and collaboration in the bioresource area with faculty from SEFS, the Department of Material Science and Engineering, the Department of Chemistry, and the Departments of Mechanical Engineering and Chemical Engineering. The University of Washington is rapidly developing new educational programs and research capability in the bio-based products and fuels area. Recent state and federal funding has resulted in extensive renovation and expansion of our bioresource laboratory and pilot areas. The holder of this faculty position will fill a critical position in our bio-based chemicals and materials research portfolio and will be a leader in the development of these new programs.

The position will remain open until filled. **Review of applications will begin April 15, 2014.** The application packet should include the following:

- 1) letter of application
- 2) curriculum vitae
- 3) description of research accomplishments
- 4) statement of research interests and plans
- 5) statement of teaching interests
- 6) names and contact information of at least 3 professional references

Applications must be submitted to biofuels@uw.edu. For questions about this position, or questions regarding potential disability accommodations, please contact Rick Gustafson, Professor and Search Committee Chair, at pulp@u.washington.edu.

The University of Washington is an affirmative action, equal opportunity employer.



Available Soon!
New Content from the 2014 MRS Spring Meeting

MID-CAREER RESEARCHER AWARD TALK
Lei Jiang
Chinese Academy of Sciences, China
Bio-inspired Interfacial Materials with Super-wettability

TECHNOLOGY INNOVATION FORUM VI
FRED KAVLI DISTINGUISHED LECTURESHIP IN NANOSCIENCE
Yury Gogotsi
Drexel University
Not Just Graphene—The Wonderful World of Carbon (and Related) Nanomaterials

Whether you missed it the first time, or just want to see an amazing presentation again, log on to MRS OnDemand and view content from the Spring Meeting, complete with presentation materials.

SYMPOSIUM X
Stephen Pennycook
University of Tennessee, Knoxville
Fulfilling Feynman's Dream: "Make the Electron Microscope 100 Times Better"—Are We There Yet?

INNOVATION IN MATERIALS CHARACTERIZATION AWARD TALK
Albert Polman
University of Amsterdam, The Netherlands
Angle-Resolved Cathodoluminescence Imaging Spectroscopy

OUTSTANDING YOUNG INVESTIGATOR AWARD TALK
Henry Snaith
University of Oxford, United Kingdom
From Nanostructured Materials to Thin-Film Perovskite Solar Cells

WOMEN IN MATERIALS SCIENCE & ENGINEERING BREAKFAST
Kathleen Buse
Case Western Reserve University
Women Persisting in the STEM Professions

In addition, **SEVEN TUTORIAL SESSIONS** and **25 TECHNICAL SESSIONS** from the 2014 MRS Spring Meeting have been added to the MRS OnDemand archive.

It's Your MRS, Your Way!

Visit www.mrs.org/on-demand to see the complete list of sessions.



UNIVERSITY of



DAYTON

Endowed Chair in Multiscale Composites Processing

Department of Chemical and Materials Engineering

The Department of Chemical and Materials Engineering at the University of Dayton invites applications from outstanding internationally recognized faculty candidates and researchers at the senior level to fill an Endowed Chair in Multiscale Composites Processing. This is an Ohio Research Scholar position that was created 5 years ago as part of a multi-university, statewide initiative formed under the Ohio Research Scholars Program (ORSP). The goal of the ORSP is to strengthen and increase the number of University-led research clusters within the state of Ohio. The ORSP will achieve such a mission through aggressive recruitment and attraction of talent to Ohio. This position is an integral part of a research cluster of excellence in technology-enabling and emergent materials. The cluster incorporates a cross-disciplinary collaboration between the University of Dayton (UD), the Ohio State University, and the University of Akron, and will coordinate with the industrial sector as appropriate. The successful candidate is expected to have a profound, leadership impact on the research cluster's activities, visibility, recognized scholarship, and collaborations.

The University of Dayton, founded in 1850 by the Society of Mary, is a top ten Catholic research university. The University seeks outstanding, diverse faculty and staff who value its mission and share its commitment to academic excellence in teaching, research, and artistic creativity, the development of the whole person, and leadership and service in the local and global community. To attain its Catholic and Marianist mission, the University is committed to the principles of diversity, inclusion, and affirmative action and to equal opportunity policies and practices. We act affirmatively to recruit and hire women, traditionally under-represented minority groups, people with disabilities, and veterans.

He/she will lead and mentor collaborative research, expand UD's academic materials program, secure external funding, and forge partnerships with academia, industry, and other organizations, and advance the regional and national stature of the University and

Ohio in this field. This position will work closely with ORSP positions at our partner institutions as noted above, and will develop additional relationships with the University of Dayton Research Institute, the National Composite Center, and the nearby Air Force Research Lab (AFRL). The Scholar will focus on scalable processing technologies for pilot and mass production of multifunctional structural composites. The position will build

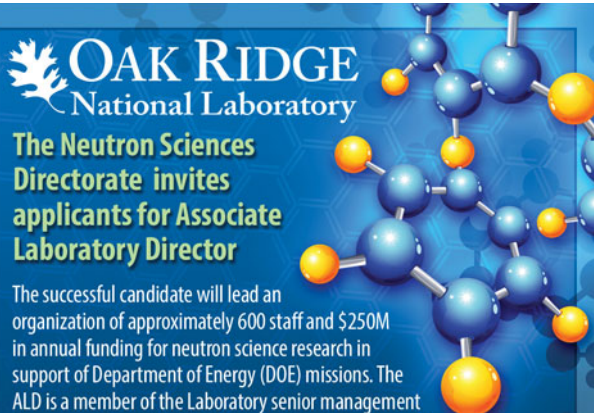
on ongoing activities to develop a new generation of composite materials, manufacturing methods, and test bed methodologies that will enable revolutionary improvements in structural materials performance and turn these improvements into economic powerhouses for the state.

The successful candidate will possess a doctorate in materials science/engineering, chemical/process engineering, or a closely related discipline and have an established record of at least 5 years of innovative, interdisciplinary composites processing, materials engineering, or process engineering research; have an established record of extramural funding; have a demonstrated ability to facilitate, integrate, and coordinate multiple research teams, collaborators, and projects, such as the Ohio Cluster in Technology-Enabling and Emergent Materials; possess experience in working with academia, government, and/or industry; have experience in growing, leading, and managing large R&D programs; and have experience teaching at the college level. Because of collaboration with U.S. government agencies and the need to access those facilities, U.S. citizenship or permanent resident status is required. Because of state requirements, applicants must be a non-Ohio resident and have no current appointment at an Ohio institution.

Lower rank candidates who have demonstrated exceptional potential through significant levels of sponsored research and/or archival publications in composites related areas may be considered. However, a nationally recognized scholar in composites and/or materials engineering and/or process engineering with a minimum of 10 years of experience, commensurate with appointment at the rank of Full Professor is highly preferred. Experience in advanced composite materials and processes, scale-up methods, components, systems, and commercialization, and expertise in additive manufacturing technologies such as fused deposition modeling and laser sintering are highly desirable. Because of the university's commitment to inclusion and diversity, experience in teaching and advising students from diverse backgrounds is highly preferred.

Review of applications began on January 31, 2014 and will continue until the position is filled. UD offers a competitive salary, attractive fringe benefits, and a generous start-up package. Please visit the following website for a complete description of the position, requirements, and application instructions:

<http://jobs.udayton.edu/postings/11833>



OAK RIDGE
National Laboratory

The Neutron Sciences Directorate invites applicants for Associate Laboratory Director

The successful candidate will lead an organization of approximately 600 staff and \$250M in annual funding for neutron science research in support of Department of Energy (DOE) missions. The ALD is a member of the Laboratory senior management team, reporting to the ORNL Director. The ALD will provide the leadership to establish ORNL as the world's foremost center for neutron sciences, delivering unprecedented capabilities for understanding the structure and dynamics of materials. Broad experience in helping to develop and implement strategies at the national and DOE program levels is highly desirable. The ALD will ensure that ORNL facilities SNS and HFIR (Spallation Neutron Source and High Flux Isotope Reactor), together comprise the world's leading neutron scattering capability with both pulsed and continuous beams as measured by instrument performance, scientific output, user satisfaction, predictability and availability of operations, and facility upgrades and expansions. The ALD will also cultivate a strong in-house research program, linked to other ORNL research areas and the broader research community, as a key element of a successful scientific user facility.

Oak Ridge National Laboratory is managed by UT-Battelle for the US Department of Energy.

neutrons.ornl.gov/ald

Staff Scientist (Inorganic Nanostructures) Molecular Foundry



The Molecular Foundry of Lawrence Berkeley National Laboratory invites applications for a highly collaborative Staff Scientist (Principal Investigator) who will:

- lead innovative individual research to advance the basic science of inorganic nanomaterials, and
- devote equal effort to the User Program, developing impactful, collaborative scientific innovations with a global network of scientists.

Research topics may include:


- Development and mechanistic analysis of new classes of inorganic nanomaterials
- Energy conversion and storage applications of inorganic nanomaterials
- Assembly of 2D and 3D multiterminal assemblies and mesoscale architectures
- Fundamental electronic, optical, and structural properties of nanostructured materials
- Interfacing nanoscale building blocks with meso- and microscale patterns and bio-inspired assemblies

Please apply at
<http://bit.ly/lbl77138MRS>

The Molecular Foundry is a DOE-funded nanoscience research facility that provides users from around the world with access to cutting-edge expertise and instrumentation in a collaborative, multidisciplinary environment. foundry.lbl.gov



Berkeley Lab is a Department of Energy (DOE) national laboratory managed by the University of California. Berkeley Lab is an incubator for ideas, innovations and products that help society and explain how the universe works, Bringing Science Solutions to the World. AA/EEO www.lbl.gov



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
Xi'an Jiaotong University

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 a number of research centers of excellence in 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. Ten planned centers have been established recently, and FIST is now recruiting the remaining Center Directors. 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/job/show.asp?id=11> 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 highly competitive salary. See our Chinese ad at <http://fist.xjtu.edu.cn/job/show.asp?id=11> for details.

In addition to the Center Director positions, FIST also invites applications in the above-mentioned areas to fill its 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 salary, lab space, and start-up fund, together with 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/job/show.asp?id=11> 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:

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XJTU is an AA/EEO employer.