

# Where should I publish?

## MRS Advances

MRS *Advances* reports snapshots of work in progress on key materials topics identified by MRS Meeting programming

Accepts Contributed Articles

► For more information visit [mrs.org/mrs-advances](http://mrs.org/mrs-advances)

## MRS Communications

MRS *Communications* publishes materials research that is impactful, urgent, and of broad interest to the materials community

Accepts Research Letters and Prospective Articles—forward-looking authoritative assessments of specific topics

► For more information visit [mrs.org/mrc](http://mrs.org/mrc)

## JMR Journal of MATERIALS RESEARCH

JMR publishes materials research that demonstrates a significant scientific advance or understanding in materials science

Accepts full-length Research Articles and Reviews

► For more information visit [mrs.org/jmr](http://mrs.org/jmr)

## MRS ENERGY SUSTAINABILITY A Review Journal

MRS *E&S* addresses broad perspectives in energy and sustainability as they relate to the impact of materials research on society

Accepts Review Articles by proposal or invitation; other article formats may be considered

► For more information visit [mrs.org/energy-sustainability-journal](http://mrs.org/energy-sustainability-journal)

## MRS Bulletin

MRS *Bulletin* provides thematic materials overviews, research news, industry and policy developments, and MRS and materials community news and events

Accepts Overview Articles by invitation or proposal

► For more information visit [mrs.org/bulletin](http://mrs.org/bulletin)

Five distinct options. One publishing partnership.



## TENURED OR TENURE-TRACK FACULTY POSITION

Chemical Engineering and Materials Science  
University of Minnesota

The Department of Chemical Engineering and Materials Science at the University of Minnesota ([www.cems.umn.edu](http://www.cems.umn.edu)) seeks to fill a faculty position at the Assistant (tenure-track), Associate (tenured), or Full Professor (tenured) level, commensurate with experience. Outstanding candidates with a PhD degree in any area related to materials science or chemical engineering will be considered. Candidates should have a distinguished academic and research record and a commitment to teaching in a highly interdisciplinary department.

Applications consisting of a cover letter, CV (including a list of publications), research statement, teaching statement, and a list of three references with contact information should be submitted online at <http://z.umn.edu/facultymse>. Additionally, the posting can be accessed through the Department website: [www.cems.umn.edu/news/faculty-search](http://www.cems.umn.edu/news/faculty-search). Review of the applications will begin immediately and continue until the position is filled. The successful candidate will be in place as early as Fall 2017.

*The University of Minnesota is an equal opportunity educator and employer.*



香港中文大學  
The Chinese University of Hong Kong

Applications are invited for:-

### Department of Physics Research Assistant Professor (Ref: 160001PW)

The Department invites applications for a Research Assistant Professorship in experimental quantum physics/materials.

Applicants should have (i) a PhD degree in physics, chemistry or materials science; and (ii) experimental research experience in at least one of the following fields:

- quantum sensing
- microscopy and manipulation of nano-objects
- magnetic resonance spectroscopy
- optical spectroscopy of nanomaterials

The appointee will (a) work closely with faculty members in research on quantum sensing based on diamond and related materials using optically detected magnetic resonance; (b) demonstrate a strong record of research accomplishments, potential for establishing externally funded research programmes; and (c) undertake light teaching duties at undergraduate and postgraduate levels. Information about relevant research in the Department is available at: <http://www.phy.cuhk.edu.hk>.

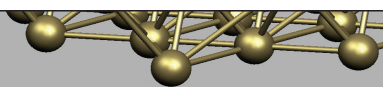
Appointment will initially be made on contract basis for up to three years commencing as soon as possible, renewable subject to mutual agreement.

Applications will be accepted until the post is filled.

#### Application Procedure

Applicants should upload a full resume, a brief research statement (not longer than three pages), copies of academic credentials, a publication list and/or abstracts of selected published papers when submitting an application for the post.

The University only accepts and considers applications submitted online for the post above. For more information and to apply online, please visit <http://career.cuhk.edu.hk>.



VANDERBILT UNIVERSITY®

## FACULTY POSITION

Experimental Nanoscience and Condensed Matter Physics  
Department of Physics and Astronomy and the Vanderbilt Institute of Nanoscale Science and Engineering

The Vanderbilt Institute of Nanoscale Science and Engineering (VINSE) ([www.vanderbilt.edu/vinse](http://www.vanderbilt.edu/vinse)) in conjunction with the Department of Physics and Astronomy ([www.vanderbilt.edu/physics](http://www.vanderbilt.edu/physics)) plans to appoint an exceptional mid-career or senior experimentalist in the Department of Physics and Astronomy. Applicants to be considered should have established a vigorous research program at the intersection of nanoscience and condensed matter physics in areas such as nanophotonics, optoelectronics, exotic materials, applied spectroscopies, and microscopies. Candidates should also have a demonstrated record of success in the classroom and of including both graduate and undergraduate students in laboratory research.

VINSE actively supports interdisciplinary nanoscience activities and recently constructed a new, state-of-the-art cleanroom and high end instrumentation suite. Vanderbilt stands at fifteenth in the *US News* and *World Report* ranking of major national universities. Its park-like campus is situated at the west edge of downtown Nashville, recently named the "It City" by the *New York Times*. The University actively fosters the well-being of students, faculty, and staff and is welcoming to members of underrepresented groups.

Applications, including curriculum vitae, list of research publications, concise statement of current/future research interests, and teaching statement, should be sent electronically to <https://academicjobsonline.org/ajo/jobs/8150>. Review of applications will begin November 1st and continue until the position is filled.

Vanderbilt University is an equal employment opportunity/affirmative action employer. Women and minority candidates are encouraged to apply.



## THREE TENURED OR TENURE-TRACK POSITIONS

Energy and Sustainable Materials



The University of Oregon announces a cluster hire in the area of Energy and Sustainable Materials, broadly defined. Target research areas include: electronic and energy devices, advanced/*in-situ* characterization, computational materials chemistry/physics, inorganic cluster chemistry, solid-state and materials physics/chemistry, surface science, and catalysis.

Appointments may be made in or across any academic department(s), at any rank, and are the first step in a long-term initiative to grow the basic and applied sciences. The hires will join an innovative and highly collaborative team in the Materials Science Institute. Exceptional candidates with backgrounds in chemistry, physics, chemical/electrical/mechanical engineering, and materials science, as well as those with industrial research and development experience, are encouraged to apply. Salaries and start-up packages will be highly competitive.

The successful candidate will have the ability to work effectively with faculty, staff, and students from a variety of diverse backgrounds. She/he will maintain a high-profile, internationally prominent and externally funded research group, while contributing to the teaching mission at the UO.

The initiative builds upon the established excellence of Materials Science at the UO. Recent investments include over \$30 million in equipment for the CAMCOR materials analysis, characterization, and fabrication facility, which is managed by professional staff and housed in two new buildings along with state-of-the-art laboratory space (<http://camcor.uoregon.edu/>). An additional \$20 million has been allocated for building remodeling. Oregon is home to the NSF-funded CCI, the Center for Sustainable Materials Chemistry. Faculty and student experiences are further enhanced by unique graduate-education programs, industry partnerships, and innovation activities.

Inquiries/nominations can be sent to Jim Hutchison and Shannon Boettcher at [materialscluster@uoregon.edu](mailto:materialscluster@uoregon.edu).

Applications can be submitted to AcademicJobsOnline.org at <https://academicjobsonline.org/ajo/jobs/7250>.

Applicants at the Senior level (Associate or Full Professor) should include a cover letter and curriculum vitae.

Applicants at the Junior level (Assistant Professor) should include, in addition to the cover letter and vitae, a statement of research plans and objectives (typically approx. five pages in length) and a brief statement of teaching philosophy or interests. Junior candidates should also arrange for three letters of recommendation to be uploaded directly by the recommenders.

Review of applications will begin October 31, and continue on a rolling basis until the positions are filled.

The University of Oregon is an equal opportunity, affirmative action institution committed to cultural diversity and compliance with the ADA. The University encourages all qualified individuals to apply, and does not discriminate on the basis of any protected status, including veteran and disability status.



DEPARTMENT OF ENERGY

## COMPUTATIONAL SCIENCE GRADUATE FELLOWSHIP

The Department of Energy Computational Science Graduate Fellowship (DOE CSGF) program provides outstanding benefits and opportunities to students pursuing doctoral degrees in fields of study that utilize high performance computing to solve complex problems in science and engineering.

### BENEFITS >

- \$36,000 yearly stipend
- Payment of full tuition and required fees
- Attend yearly program review
- \$5,000 academic allowance in first year
- \$1,000 academic allowance each renewed year
- 12-week research practicum
- Renewable up to four years

### APPLY ONLINE

The DOE CSGF program is open to senior undergraduates and students in their first year of doctoral study. Access application materials and additional information at:

[www.krellinst.org/csgf](http://www.krellinst.org/csgf)

APPLICATIONS DUE JANUARY 18, 2017



Office of Science



This equal opportunity program is open to all qualified persons without regard to race, gender, religion, age, physical disability or national origin.





## FACULTY POSITION

Mechanical Engineering



**Massachusetts  
Institute of  
Technology**

The Massachusetts Institute of Technology (MIT) Department of Mechanical Engineering seeks applications for a total of three faculty positions starting September 2017 or on a mutually agreed date thereafter. Appointment will be at the assistant or untenured associate professor level. In special cases, a senior faculty appointment will be considered. Our department is committed to fostering interdisciplinary research that can address grand challenges facing our society. We seek candidates who will provide inspiration and leadership in research, contribute proactively to both undergraduate and graduate level teaching in the Mechanical Engineering department, and add to the diversity of the academic community.

Faculty duties include teaching at the graduate and undergraduate levels, advising students and conducting research. Candidates must hold an earned PhD degree in Mechanical Engineering or a related field by the beginning of employment. Candidates in all areas related to Mechanical Engineering will be considered, including, but not limited to: (1) mechanics: modeling, experimentation, and computation; (2) design, manufacturing, and product development; (3) control, instrumentation, and robotics; (4) energy science and engineering; (5) ocean science and engineering; (6) bioengineering; and (7) micro/nanoengineering.

In addition to searching broadly in mechanical engineering, the department is particularly interested in hiring in thermal science and ocean engineering. Please refer to special ads on our website (<http://meche.mit.edu/faculty-positions>) for details.

Applicants should send a curriculum vita, a research statement, a teaching statement, and copies of no more than three publications. They should also arrange for four individuals to submit letters of recommendation on their behalf. This information must be entered electronically at the following site: <https://school-of-engineering-faculty-search.mit.edu/meche/register.tcl> by **December 1, 2016** when review of applications will begin.

MIT is an equal-opportunity/affirmative action employer. Women and underrepresented minorities are especially encouraged to apply.



## FACULTY POSITION

Center for Condensed Matter Sciences  
National Taiwan University

The Center for Condensed Matter Sciences, as a premiere research center at the National Taiwan University, has immediate openings for tenure-track faculty positions. Rank of faculty positions will match the candidate's qualifications. Applicants with excellent credentials in cutting-edge condensed matter research fields, such as emerging materials or advanced spectroscopic and microscopic techniques, in both fundamental and applied aspects, will be considered.

Applicants should send resume, publication list, research plans, and three letters of recommendation to:

Director, Prof. Li-Chyong Chen  
Center for Condensed Matter Sciences  
National Taiwan University  
Taipei 106, Taiwan  
Center Assistant: Wei-Lin Chou  
Email: [cwli1828@ntu.edu.tw](mailto:cwli1828@ntu.edu.tw)  
Phone: (02) 3366-5201  
Fax: (02) 2365-5404

Closing date for applications is **December 10, 2016**.



## Department of Energy National Nuclear Security Administration STEWARDSHIP SCIENCE GRADUATE FELLOWSHIP

The Department of Energy National Nuclear Security Administration Stewardship Science Graduate Fellowship (DOE NNSA SSGF) program provides outstanding benefits and opportunities to students pursuing a Ph.D. in areas of interest to stewardship science, such as **properties of materials under extreme conditions and hydrodynamics, nuclear science, or high energy density physics**. The fellowship includes a 12-week research experience at Lawrence Livermore National Laboratory, Los Alamos National Laboratory or Sandia National Laboratories.

**APPLY ONLINE** | The DOE NNSA SSGF program is open to senior undergraduates or students in their first or second year of graduate study. Access application materials and additional information at:

[www.krellinst.org/ssgf](http://www.krellinst.org/ssgf)

APPLICATIONS DUE

JANUARY  
11  
2017

BENEFITS +

\$36,000 yearly stipend  
Payment of full tuition and required fees  
\$1,000 yearly academic allowance  
Yearly program review  
12-week research practicum  
Renewable up to four years

This equal opportunity program is open to all qualified persons without regard to race, gender, religion, age, physical disability or national origin.



U.S. DEPARTMENT OF  
**ENERGY**





## FACULTY POSITIONS

Materials Science and Engineering | University of Pennsylvania



The Department of Materials Science and Engineering is engaged in an aggressive, multi-year hiring effort for multiple tenure-track positions at the assistant professor level. Exceptional applicants for tenured associate and full professor positions may also be considered.

Applicants from all materials-related research areas are invited to apply, especially those with expertise in (1) electronic and optical materials and (2) materials for health sciences.

**Electronic and Optical Materials:** New low-dimensional materials with novel properties will lead to new optoelectronic and quantum device paradigms and applications. In low-dimensional materials the interplay of geometry, topology, mechanical deformations, and symmetry breaking fields can drastically modify their electronic, optical, and photonic properties and produce new phases of matter with precisely tunable responses. For example, the combined effects of symmetry and topology in materials' electronic structures have led to the discovery of topological insulators, topological superconductors, and Dirac semimetals. New layered materials and their heterostructures are a rich and emerging source for exploring new electronic and optical phenomena that are unattainable in conventional material systems. Foundational research on these emerging materials will have significant impact for future applications including quantum computing, photonics and sensing, particularly research areas that focus on (i) atomically precise synthesis, growth or assembly of quantum materials, (ii) designing novel materials, probes and device platforms to evaluate new theories and expand the fundamental understanding of these electronic, optical and optoelectronic properties, and (iii) engineering materials with innovative functionalities for future technologies. Prof. Ritesh Agarwal chairs this search committee.

**Materials for the Health Sciences:** Materials continue to enable innovation in the health sciences, particularly in the areas of medical and dental implantable devices, advanced imaging and sensing, injury reduction, drug delivery, and stimulating tissue regeneration, formation and repair. By the judicious design of the chemical compositions and materials processing methods, the micro- and nanostructures and surfaces can be controlled to provide the desired combinations of properties and functionalities. Materials performance can be further advanced by incorporating biological components, including cells and proteins. Fundamental materials research will ignite future breakthroughs in the healthcare industry including tissue engineering and regenerative medicine, therapeutic delivery, repair of injuries, and next-generation devices for advanced imaging and sensing, as well as providing model materials for studying biological systems. Prof. Vivek Shenoy chairs this search committee.

Applications must be submitted online <http://facultysearches.provost.upenn.edu/postings/943> and include a cover letter, a complete curriculum vitae, a short (5-page limit) research statement, a teaching statement and the names of three references (with contact information) who could provide letters of recommendation. The cover letter should describe the applicant's most significant scientific accomplishment as a graduate student and as a postdoc, the applicant's overall goals/vision for a research program at Penn, and the experience and qualifications that make the applicant particularly well-suited to achieve those goals. For important context consider the School of Engineering and Applied Science's strategic plan (<http://www.seas.upenn.edu/PennEngineering2020/>).

Review of applications will begin immediately with a target deadline of **November 1, 2016**.

*The University of Pennsylvania is an affirmative action/equal opportunity employer. All qualified applicants will receive consideration for employment and will not be discriminated against on the basis of race, color, religion, sex, sexual orientation, gender identity, creed, national or ethnic origin, citizenship status, age, disability, veteran status, or any other characteristic protected by law.*

## Faculty Position in Materials Science & Engineering – Cornell University

The Department of Materials Science and Engineering at Cornell University is soliciting applications for a tenured or tenure track faculty position. Exceptional candidates are sought, particularly those who will dramatically enhance our core research thrusts in both theoretical/computational and experimental materials science and engineering. We particularly welcome applicants whose research aligns with the Cornell NEXT initiative in nanoscale science and microsystems engineering ([next.cornell.edu](http://next.cornell.edu)).

More information on Cornell MS&E's strategic research focus is available at: <http://mse.cornell.edu>.

Candidates are expected to currently have or to develop an internationally recognized program of research and teaching in materials science and engineering. Considerable institutional resources are available for the support of the successful applicant's research program and a competitive start-up package can be expected. The successful candidate can expect to benefit from associations with Cornell's many interdisciplinary research centers, facilities, and initiatives, which include a number of national resources. The successful candidate will be expected to excel in the teaching of materials science and engineering and to mentor students at both the undergraduate and graduate levels. Applicants at all levels will be considered for this position.

The Department of Materials Science and Engineering and the College of Engineering at Cornell embrace diversity and seek candidates who will create a climate that attracts students of all races, nationalities and genders. Women and under-represented minorities are strongly encouraged to apply.

Applications including a resume that includes a list of publications, a statement on teaching and research interests, up to three publications, and names of several references should be submitted online within this site.

Applications including a resume, a statement on teaching and research interests, copies of publications or preprints, and names of several references should be submitted online at:

<https://academicjobsonline.org/ajo/jobs/7755>

Applications will be reviewed starting November 1, 2016, but will be considered on a rolling basis until July 1, 2017.

<https://www.mse.cornell.edu/mse/news/jobs.cfm>



*Diversity and Inclusion are a part of Cornell University's heritage.  
We're an employer and educator recognized for valuing AA/EEO, Protected Veterans, and Individuals with Disabilities.*