



# Faculty Position

## CENTER FOR MATERIALS FOR INFORMATION TECHNOLOGY

THE UNIVERSITY OF  
**ALABAMA**

The University of Alabama (UA) has a faculty position to be associated with its Center for Materials for Information Technology (MINT). The MINT Center is an interdisciplinary organization for materials research for information technology. Approximately 40 faculty members from the departments of physics, chemistry, metallurgical and materials engineering, chemical and biological engineering, electrical and computer engineering, and applied mathematics participate in MINT research. Its mission is to perform world-class research in materials and phenomena relevant to information technologies, to educate students in the applicable disciplines, and to serve as a communication channel for the information technology industry.

Applicants should have a commitment to interdisciplinary research in materials. A PhD degree in physics, chemistry, materials science, metallurgy, chemical engineering, electrical engineering, applied mathematics, or a closely related discipline is required. Successful candidates will be appointed to a tenure-track or tenured position in one of the participating departments and will be expected to teach and perform the duties of a faculty member in the department. Expertise is especially desired in the experimental field of Magnetism and Magnetic Materials or closely related, with preferred emphasis on nano/atomic scale materials fabrication and characterization, nano-device fabrication, and computer aided materials design.

*The University of Alabama is an Equal Opportunity, Affirmative Action employer.*

Review of applications will begin as early as August 1, 2014, and will continue until the position is filled. Applicants should apply at <http://facultyjobs.ua.edu/postings/35452> with the following information:

1. Cover Letter
2. Curriculum Vitae
3. List of Publications and Patents (attach to "Other Documents")
4. Statement of Research Interests
5. Statement on Educational Philosophy
6. Reference Letters (at least three) should be arranged to send upon application.

**UCSB**

**Assistant Professor**  
**Electronic and Photonic Materials**  
University of California, Santa Barbara

The Materials Department in the College of Engineering at the University of California, Santa Barbara is seeking applications for an Assistant Professor position (tenure-track) in Electronic and Photonic Materials.

Candidates should demonstrate the potential to build up a cutting-edge, experimental research program in the areas of development and materials physics of electronic and/or photonic materials. We particularly encourage applications from candidates with expertise in one of the following areas: materials for energy efficiency; transport physics; novel electronic and photonic materials; photodetectors and sources. Candidates should also embrace UCSB's culture of collaboration and multi-disciplinary work.

Applications consisting of a résumé, brief statements of teaching philosophy and research interests (2-page-limit each), and the names and addresses of at least three references, should be submitted online at <https://recruit.ap.ucsb.edu/apply/JPF00355>.

Please apply by **December 27, 2014** for primary consideration; however, the position will remain open until filled.

The Materials department is especially interested in candidates who can contribute to the diversity and excellence of the academic community through research, teaching, and service. The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, or any other characteristic protected by law including protected Veterans and individuals with disabilities.



**RESNICKINSTITUTE**  
science + energy + sustainability

### PRIZE POSTDOCTORAL FELLOWSHIP IN SUSTAINABILITY SCIENCE at Caltech's Resnick Sustainability Institute

The Resnick Sustainability Institute Prize Postdoctoral Fellowships were created to engage outstanding recent graduates in projects that explore new directions in sustainability focused scientific research at Caltech.

Resnick Fellows will have support for up to two years to work on creative, cross-catalytic research that complements the existing work of the Caltech faculty in sustainability science, or that creates new research directions within the mission areas of the Resnick Sustainability Institute.

**Application Documents:** (a) A cover letter with a short summary of past work and current research plans; (b) Research plan outlining proposed work (maximum 5 pages, references counted separately); (c) 3 letters of recommendation, one of which must be from the sponsoring Caltech faculty member; (d) CV including list of publications

**Deadline:** Monday, October 13, 2014; 5:00 p.m. PST

For more information visit  
<http://resnick.caltech.edu/fellowships.php>

To apply visit  
<https://applications.caltech.edu/job/rpd>

**Caltech**



## FACULTY POSITION

### Materials Chemistry Dartmouth College

The Department of Chemistry at Dartmouth College is seeking an outstanding applicant for an open rank (tenured or tenure-track) faculty position in Materials Chemistry starting July 2015. We seek candidates interested in making, measuring, and/or modeling materials, broadly defined including polymers, nanomaterials, surfaces/interfaces, and molecular sensors and machines. Candidates who will help lead, initiate, and participate in collaborative research projects within Chemistry as well as Dartmouth's Thayer School of Engineering and Geisel School of Medicine are particularly encouraged to apply. Teaching responsibilities will include participation in the undergraduate curriculum and advanced/graduate courses in their area of specialty. The department (<http://www.dartmouth.edu/~chem/>) is home to 17 tenured and tenure-track faculty with strong PhD and MS programs and affiliated with Dartmouth's MD-PhD program.

Dartmouth College, a member of the Ivy League, is located in Hanover, New Hampshire (on the Vermont border). Dartmouth has a beautiful, historic campus located in a scenic area on the Connecticut River. Recreational opportunities abound in all four seasons.

Applicants should submit a curriculum vitae, a description of their research (funding and future plans), a statement of their teaching interests, and at least three reference letters (tenure-track) or names of three references (senior candidates). All inquiries and applications will be treated confidentially. Application materials should be submitted to <http://apply.interfolio.com/25556>. Applications received by October 1, 2014 will receive first consideration.

*Dartmouth is an equal opportunity/affirmative action employer with a strong commitment to diversity. In that spirit, we are particularly interested in receiving applications from a broad spectrum of people, including women, persons of color, persons with disabilities, veterans or any other legally protected group.*



## PROGRAM DIRECTORS Division of Materials Research National Science Foundation

The Division of Materials Research (DMR) at the National Science Foundation, Arlington, VA, announces a nationwide search for senior-level researchers to serve as **Program Directors in the Biomaterials and Condensed Matter and Materials Theory Programs**. Formal consideration of interested applications will begin July 15, 2014 and will continue until selections are made.

The Biomaterials position requires an individual with broad expertise and demonstrated experience in materials research related to materials of biological origin, synthetic materials intended for applications in biological systems, materials that mimic or are inspired by biological materials, and the processes through which biological materials are produced in nature. Additional expertise in interdisciplinary research areas at the interface between the biological/life and the materials/physical sciences is also desired. Applicants must have a PhD degree or equivalent experience in the chemical, materials, or physical sciences or a closely-related field plus after the award of the PhD, six or more years of successful research, and research administration and/or managerial experience pertinent to the position.

The Condensed Matter and Materials Theory position requires an individual with broad expertise and demonstrated experience in theoretical and computational materials research, particularly in soft matter. Applicants must have a PhD degree or equivalent experience in the physical sciences or a closely-related field, plus after the award of the PhD, six or more years of successful research, and research administration and/or managerial experience pertinent to the position.

For additional information and how to apply, please refer to the Biomaterials and Condensed Matter and Materials Theory Dear Colleague Letters at [www.nsf.gov/materials](http://www.nsf.gov/materials).

Because NSF has a rotator program, there are often opportunities in diverse areas of materials research. Those interested are welcome to request further information from [dmr-recruit@nsf.gov](mailto:dmr-recruit@nsf.gov). For additional information on NSF's rotational programs, please visit: [http://www.nsf.gov/about/career\\_apps/rotators/](http://www.nsf.gov/about/career_apps/rotators/).

*NSF is an Equal Opportunity Employer committed to employing a highly qualified staff that reflects the diversity of our nation.*



## FACULTY POSITION Department of Advanced Science and Technology Toyota Technological Institute

Toyota Technological Institute has an opening for a tenured- or tenure-track faculty position in the Department of Advanced Science and Technology. Applications are encouraged from all relevant areas. For more information, please refer to the website at <http://www.toyota-ti.ac.jp/english/employment/associate.html>.

### POSITION

Associate professor (tenured or tenure-track)

### RESEARCH FIELD

Surface chemistry, nanoscale design, and fabrication of novel functional materials for environment, energy, or bio-applications

### QUALIFICATIONS

A PhD degree in a relevant field is required. The successful candidate is expected to demonstrate potential to develop strong and outstanding programs in the above research field. It is also necessary for him/her to supervise students, and to teach advanced and basic courses both at the undergraduate and graduate levels.

### START DATE

April 1, 2015, or at the candidate's earliest convenience

### DOCUMENTS REQUIRED

1. A curriculum vitae
2. A list of research activities
3. Copies of five representative papers
4. A brief summary and future plan of your research and educational statement (within three pages each)
5. Names of two references, including phone numbers and e-mail addresses
6. An application form (available on our website)

**DEADLINE: NOVEMBER 21, 2014**

### INQUIRY

Professor Yasutake Ohishi  
Search Committee Chair  
Phone: +81-52-809-1860  
E-mail: [y-ohishi1@toyota-ti.ac.jp](mailto:y-ohishi1@toyota-ti.ac.jp)

### THE ABOVE DOCUMENTATION SHOULD BE SENT TO:

Mr. Takashi Hirato, Administration Division  
Toyota Technological Institute  
2-12-1, Hisakata, Tempaku-ku  
Nagoya, 468-8511 Japan





**Assistant Professor**  
**Biomolecular and Macromolecular Materials**  
 University of California, Santa Barbara

The Materials Department in the College of Engineering at the University of California, Santa Barbara is seeking applications for a tenure-track Assistant Professor position in the area of Biomolecular and Macromolecular Materials.

Outstanding candidates should demonstrate the ability to build a world-class experimental or theoretical research program in the area of soft and/or biological materials, broadly interpreted. It is expected that the candidate would demonstrate the potential for collaborative, interdisciplinary research with the broader Materials community at UCSB and take a leading role in advancing the world-class experimental and computational facilities at UCSB. Applicants should have a PhD degree or equivalent in materials science and engineering or a related field.

Application packages should include a complete curriculum vitae, three letters of reference, a brief (four page limit) statement of research interests, and a cover letter. The cover letter should describe, separately and succinctly, three elements: (1) the candidate's most significant scientific accomplishment; (2) the candidate's overall goals/vision for his/her research program at our institution; and (3) the experience and qualifications that make the candidate particularly well-suited to achieve those goals. The package should be submitted to <https://recruit.ap.ucsb.edu/apply/JPF00354>.

Please apply by **November 30, 2014** for primary consideration; however, the position will remain open until filled.

The Materials department is especially interested in candidates who can contribute to the diversity and excellence of the academic community through research, teaching, and service. The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, or any other characteristic protected by law including protected Veterans and individuals with disabilities.



**LIANE B. RUSSELL FELLOWSHIP**

The Department of Energy's (DOE) Oak Ridge National Laboratory (ORNL) has recently established a new distinguished research position—The Liane B. Russell Fellowship. An integral part of ORNL's diversity recruiting effort, this prestigious position is designed to attract a world-class workforce of early career researchers in all fields of science and engineering that relate to the DOE mission. Fellows will conduct high-quality research with intentions of pursuing long-term careers at ORNL, elevating the reputation of the laboratory, and becoming scientific leaders in their field. Candidates must have received their PhD degree within the past seven years. Further information regarding this fellowship can be found at <http://bit.ly/lianerussell>.

To apply for the Liane Russell Fellowship position, please contact Lauren Wurth at [wurthla@ornl.gov](mailto:wurthla@ornl.gov).

ORNL is an equal opportunity employer. All qualified applicants, including individuals with disabilities and protected veterans, are encouraged to apply.

**Harry S. Truman Fellowship**  
 in National Security Science and Engineering



Sandia National Laboratories is one of the country's largest research facilities employing nearly 8,500 people at major facilities in Albuquerque, New Mexico and Livermore, California. Please visit our website at [www.sandia.gov](http://www.sandia.gov).

We are seeking applicants for the President Harry S. Truman Fellowship in National Security Science and Engineering. Candidates for this position are expected to solve a major scientific or engineering problem in their thesis work or have provided a new approach or insight to a major problem, as evidenced by a recognized impact in their field.

Sandia's research focus areas are: bioscience, computing and information science, engineering science, materials science, nanodevices and microsystems, radiation effects and high energy density science, and geoscience.

Candidates must meet the following requirements: U.S. citizenship, the ability to obtain and maintain a DOE "Q" clearance, and a Ph.D. (3.5 undergraduate and 3.7 graduate GPA preferred), awarded within the past three years at the time of application, or completed Ph.D. requirements by commencement of appointment. Candidates must be seeking their first national laboratory appointment (pre postdoc internships included).

The Truman Fellowship is a three-year appointment normally beginning on October 1. The salary is \$111,200 plus benefits and additional funding for the chosen proposal. The deadline to apply is November 1st of each year.

For complete application instructions, please visit: [http://www.sandia.gov/careers/students\\_postdocs/fellowships/truman\\_fellowship.html](http://www.sandia.gov/careers/students_postdocs/fellowships/truman_fellowship.html)

Please submit the complete package to: Yolanda Moreno, Sandia National Laboratories, P.O. Box 5800, MS0359, Albuquerque, NM 87185-0359, or email [ymoreno@sandia.gov](mailto:ymoreno@sandia.gov). Please reference Job ID: 646048. All materials must be received by November 1, 2014.

Operated by



U.S. Citizenship Required.  
 Equal Opportunity Employer. M/F/D/V.



**POSTDOCTORAL POSITION**  
**3D Microstructural Characterization**

There is an immediate opening for a postdoctoral scholar in the Department of Materials Science and Engineering (<http://engineering.jhu.edu/materials/>) and the Hopkins Extreme Materials Institute (<http://hemi.jhu.edu>) at Johns Hopkins University.

The general area of interest is in three-dimensional microstructural characterization of materials, with an emphasis on serial sectioning of metals by femtosecond laser ablation. The strongest candidates for this position will have experience in one or more of the following areas: Collection and analysis of three-dimensional microstructural data, laser/material interactions, scanning electron microscopy (SEM), and electron backscattered diffraction (EBSD).

Candidates for this position must have an earned doctorate in materials science or a related field. Interested candidates are encouraged to contact Prof. Todd Huftnagel at [hufnagel@jhu.edu](mailto:hufnagel@jhu.edu) for additional information. To apply please send a single PDF containing a résumé or CV, copies of two relevant publications, and the names and contact information of three references to Prof. Huftnagel at [hufnagel@jhu.edu](mailto:hufnagel@jhu.edu).

Women and minorities are especially encouraged to apply. Johns Hopkins University is an EEO/AA employer.



## FACULTY POSITION

### Department of Materials Science and Engineering

The Department of Materials Science and Engineering ([www.mse.iastate.edu](http://www.mse.iastate.edu)) at Iowa State University (ISU) invites applications for a tenure-track faculty position at the Assistant Professor level in the technical areas contributory to experimental research efforts in Metals and Alloys. Exceptional senior candidates in the specified areas may be considered for a tenured rank and/or endowed research chair/professorship positions.

This position will be expected to develop a vibrant research program, teach undergraduate and graduate courses in physical or process metallurgy, and engage in professional and institutional service and leadership. The candidate will have opportunities to engage in significant interdisciplinary collaborations on the Iowa State University campus.

The successful candidate must have a PhD degree in metallurgy, materials science and engineering, or a related engineering discipline, with research in metallic materials. In addition to the qualifications above, candidates for the ranks of Associate or Full Professor will have demonstrated research accomplishments and the potential for continuing excellence in both research and teaching commensurate with the level of rank granted.

All applications must be submitted electronically for **Vacancy #140694** through the [www.iastatejobs.com](http://www.iastatejobs.com) website by **October 24, 2014**.

Iowa State University is an Equal Opportunity/Affirmative Action employer. All qualified applicants will receive consideration for employment without regard to race, color, age, religion, sex, sexual orientation, gender identity, genetic information, national origin, marital status, disability, or protected veteran status, and will not be discriminated against. Inquiries can be directed to the Director of Equal Opportunity, 3350 Beardshear Hall, 515-294-7612, email: [eooffice@iastate.edu](mailto:eooffice@iastate.edu).

## IOWA STATE UNIVERSITY

## PROGRAM DIRECTOR

### Materials Research Science and Engineering Centers Program National Science Foundation



The Division of Materials Research (DMR) at the National Science Foundation, Arlington, VA, announces a nationwide search for a senior-level researcher to serve as Program Director in the Materials Research Science and Engineering Centers Program (MRSEC). Formal consideration of interested applications will begin September 2, 2014 and will continue until a selection is made. This position requires an individual with broad expertise and demonstrated success in interdisciplinary experience in materials science. Applicants must possess a PhD degree or equivalent experience in materials science and engineering, solid state and materials chemistry, condensed matter and materials physics, biomaterials, or a closely related field of science or engineering. In addition applicants should have six or more years of successful research, research administration, and/or managerial experience pertinent to the position.

For additional information and how to apply, please refer to the Materials Research Science and Engineering Centers (MRSEC) Dear Colleague Letter at [www.nsf.gov/materials](http://www.nsf.gov/materials).

Because NSF has a rotator program, there are often opportunities in diverse areas of materials research. Those interested are welcome to request further information from [dmr-recruit@nsf.gov](mailto:dmr-recruit@nsf.gov). For additional information on NSF's rotational programs, please visit [http://www.nsf.gov/about/career\\_ops/rotators/](http://www.nsf.gov/about/career_ops/rotators/).

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## TENURE-TRACK FACULTY POSITION

### Polymer Synthesis/Biomaterials



**HARVARD**  
School of Engineering  
and Applied Sciences

WYSS INSTITUTE

The School of Engineering and Applied Sciences (SEAS) and the Wyss Institute for Biologically Inspired Engineering at Harvard University (Wyss Institute) seek applicants for a tenure-track faculty position in biologically inspired materials, with an emphasis on polymer synthesis and/or materials fabrication for biomedical or industrial applications. The expected start date is July 1, 2015.

In addition to having a faculty appointment in SEAS, the successful candidate will also become a core faculty member of the Wyss Institute, which is composed of engineers, scientists, and clinicians from Harvard, its affiliated hospitals, and other leading academic institutions in the Boston/Cambridge region. The Wyss Institute's mission is to develop biologically inspired materials and devices that will solve critical medical and environmental problems and to translate these transformative technologies into products that have an impact on society and the world. The Institute's high-risk, science-driven approach is based on a pioneering model of innovation, collaboration, and technology translation.

SEAS and the Wyss benefit from outstanding undergraduate and graduate students, excellent locations, and significant industrial collaborations. Information about SEAS's current faculty, research, and educational programs is available at <http://www.seas.harvard.edu>. Information about the Wyss Institute can be found at <http://wyss.harvard.edu/>.

Candidates are required to have a doctorate or terminal degree in Chemical Engineering, Chemistry, Polymer Science, Materials Science and Engineering, Bioengineering, or a related field by the expected start date. In addition, we seek candidates who have an outstanding research record, a strong interest in technology translation, and a strong commitment to undergraduate teaching and graduate training. We are in particular looking for applicants, of exceptional potential, who can interact with a wide range of both SEAS and Wyss faculty.

Required application documents include a cover letter, curriculum vitae, statement of research plans, statement of teaching interests, copies of up to three representative papers, and names and contact information for three to five references. Applicants will apply on-line at <http://academicpositions.harvard.edu/postings/5571>. We encourage candidates to apply by **November 1, 2014**, but will continue to accept applications until the position is filled.

*Harvard University is an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status, or any other characteristic protected by law.*

The University of Washington invites applications or nominations for a full-time (100% FTE) tenure-track faculty position to begin Autumn 2015. 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 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.

## ASSISTANT PROFESSOR IN BIO-BASED MATERIALS

### SCHOOL OF ENVIRONMENTAL AND FOREST SCIENCES

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 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 **October 10, 2014**. The application packet should include:

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 three professional references

Applications must be submitted to [biofuels@uw.edu](mailto:biofuels@uw.edu), and reference **Search Number AA3724**. For questions about this position, or questions regarding potential disability accommodations, please contact Rick Gustafson, Professor and Search Committee Chair, at [pulp@uw.edu](mailto:pulp@uw.edu).

EEO Employer/Vet/Disability



## TENURE-TRACK FACULTY

### Theoretical & Computational Chemistry

The Department of Chemistry at the University at Buffalo invites applications for a tenure-track faculty position in theoretical & computational chemistry at the Assistant Professor level. All relevant research areas will be considered; candidates with interests in materials research, structure and dynamics of bio-organic or bio-inorganic systems, electron dynamics, multi-scale modeling of complex systems down to the quantum level, or development of new electronic structure methods, are particularly encouraged to apply. An assistant professor is expected to develop a vigorous, externally funded research program, to be committed to teaching at undergraduate and graduate levels, to mentor students, and to serve the department, university, and discipline.

Applicants should upload their application package (in PDF format) to:

<https://www.ubjobs.buffalo.edu/applicants/Central?quickFind=57304>

including: a cover letter, Curriculum Vitae, teaching statement, research proposals (ten page limit), and names and contact information (including address, email, phone numbers) for three references.

References will be contacted with a request to submit letters online at [www.UBJobs.buffalo.edu](http://www.UBJobs.buffalo.edu).

Review of applications will begin on October 1, 2014 and will continue until the position is filled. Questions may be addressed to: [tcsearch@buffalo.edu](mailto:tcsearch@buffalo.edu).

*The University at Buffalo is an Affirmative Action/Equal Opportunity Employer/Recruiter (AA/EOE) and encourages women, minorities, persons with disabilities, and veterans to apply.*



## Career Central Job Board

COMING  
SOON

### JOB SEEKERS

- Manage your personalized job search
- Access hundreds of job postings relevant to you
- Post resumes in confidence
- Access our advanced Job Alert system

### EMPLOYERS

- Quickly and easily post job openings
- Manage your online recruiting efforts
- Utilize our cutting-edge resume searching capabilities
- Reach targeted and qualified candidates