



AUBURN
UNIVERSITY

FACULTY POSITION EXPERIMENTAL CONDENSED MATTER PHYSICS

The Physics Department at Auburn University is seeking a highly qualified individual for a tenure-track Assistant Professor position in the area of experimental condensed matter physics. Applicants should have particular expertise in physical characterization of emergent materials and interfaces using state-of-the-art techniques such as spectroscopy, microscopy, and scattering. Competitive start-up packages are available for the development of new laboratory capabilities. Applicants must possess a PhD or equivalent degree in Physics or a closely related field at the time of hire. Postdoctoral research experience is highly desirable. Excellent written and interpersonal communication skills are required.

The successful candidate will be expected to: (1) demonstrate strong leadership potential in the area of condensed matter physics, (2) establish a vibrant externally funded research program in materials characterization in collaboration with programs at Auburn University and other institutions, (3) provide direction to undergraduate/graduate students and postdoctoral researchers, and (4) conduct excellent instruction at the undergraduate and graduate level in the Physics curriculum.

Candidates must apply online at: <http://aufacultypositions.peopleadmin.com/postings/3064>.

Auburn University is an EEO/Vet/Disability Employer.

Applications need to include a cover letter, curriculum vitae, statement of teaching philosophy, statement of research, and contact information for three professional references. Applicants should articulate a vision for a research program that produces high impact research by expanding on existing strengths within the Department and University, and/or through external collaborations and/or user facilities. More information about the department can be found at: <http://www.physics.auburn.edu>

The review of applications will begin on **December 1, 2018**, and will continue until the position is filled. The desired starting date is August 16, 2019.

Candidates selected for this position must be able to meet eligibility requirements to work in the United States at the time the appointment is scheduled to begin and continue working legally for the proposed term of employment.

FACULTY POSITION Theoretical And Computational Molecular Science

Dartmouth College seeks applicants for a tenure-track Assistant Professor in the area of Theoretical and Computational Molecular Science. The ideal candidate will use theoretical chemistry and computational modeling approaches to address foundational and practical questions about molecular structure, function, energetics, spectroscopy, reaction kinetics, and their impact in systems of biological interest. Preference will be given to candidates with applications geared towards biochemistry including but not limited to enzyme catalysis, photosynthesis, and drug design. Preference will also be given to candidates who study and characterize the effects of both quantum and classical phenomena in molecular science. The successful candidate will be expected to direct an independent research program that will attract extramural funding, provide research training for graduate and undergraduate students, and teach graduate and undergraduate courses. The candidate is expected to join an interdisciplinary faculty cluster whose members research the theoretical and experimental impact of analog computation in quantum, bio-molecular, and cellular circuits and systems. The successful candidate is expected to have a primary appointment in either

the Department of Chemistry, Department of Computer Science, or Department of Physics and Astronomy.

Dartmouth undergraduate and graduate student populations are diverse by many measures. We are especially interested in applicants with a record of successful teaching and mentoring of students from all backgrounds (including first-generation college students, low-income students, racial and ethnic minorities, women, LGBTQ, etc.), and who have a demonstrated ability to contribute to Dartmouth's undergraduate diversity initiatives in STEM research, such as the Women in Science Program, E. E. Just STEM Scholars Program, and Academic Summer Undergraduate Research Experience (ASURE). Applicants are encouraged to discuss relevant skills and experiences in their teaching statement.

Candidates should hold a PhD degree. Relevant postdoctoral experience is preferred. Application materials, including a curriculum vitae, representative publications, a statement of research interest (not to exceed 4 pages), a teaching statement, and at least three letters of reference should be uploaded to: <http://apply.interfolio.com/53602>. Application review will begin on **November 1, 2018** and continue until the position is filled.



DARTMOUTH

Dartmouth College, a member of the Ivy League, is located in Hanover, New Hampshire (on the Vermont border). Home to Dartmouth College, the Upper Connecticut Valley is a vibrant, academic and professional community offering excellent schools, lively arts, and an unmatched quality of life in a beautiful setting. Amenities associated with urban areas in Boston, MA, Burlington, VT, and Montreal, QC are all within a few hour's drive.

Dartmouth College is an equal opportunity/affirmative action employer with a strong commitment to diversity and inclusion. We prohibit discrimination on the basis of race, color, religion, sex, age, national origin, sexual orientation, gender identity or expression, disability, veteran status, marital status, or any other legally protected status. Applications by members of all underrepresented groups are encouraged.



PROFESSOR NANOFABRICATION (AP 18-07)

INSTITUT NATIONAL DE LA RECHERCHE SCIENTIFIQUE (tenure-track position)

CONTEXT AND SUMMARY

The Institut national de la recherche scientifique (INRS) is the only academic institution in Québec (Canada) dedicated exclusively to research and training at the graduate level. The influence of our faculty, researchers, and students extends worldwide. In partnership with the scientific community and the private sector, we are proud to contribute to societal development through our discoveries and through the training of young scientists.

INRS – Énergie Matériaux Télécommunications (EMT) Research Centre would like to hire a new faculty in the area of Micro- and Nanofabrication. The successful candidate will collaborate with multidisciplinary research teams at the INRS Énergie Matériaux Télécommunications Research Centre in the areas of (but not limited to) electron-beam lithography, nanometer pattern transfer including plasma etching techniques, and fabrication and characterization of micro- and nanosystems e.g. for applications in photonics, optoelectronics, energy conversion and storage, solid state lighting, chemical and environmental sensing, biosensing and biomedical engineering.

The Centre hosts the unique major research Infrastructure of Nanostructures and Femtoscience (<http://lmn.emt.inrs.ca/EN/inf.htm>), which comprises the Advanced Laser Light Source, the Laboratory of Micro and Nanofabrication, and the Infrastructure for Advanced Imaging. The new faculty will work in an environment where about forty professors-researchers undertake leading-edge research and training in diverse areas of sustainable energy, advanced materials, ultrafast photonics, telecommunication systems and nanobiotechnology.

MAIN DUTIES AND RESPONSIBILITIES

- Develop an original and innovative program.
- Secure external funding from a variety of funding agencies, both provincial and federal, also involving various partners from the public and private sectors whenever needed/pertinent. Potential sources of funding include the Natural Sciences and Engineering Research Council of Canada (NSERC) and the Fonds québécois de la recherche sur la nature et les technologies (FQRNT).
- The candidate is expected to establish collaborations with research teams already in place, while developing or maintaining partnerships with groups outside the EMT research center. The ability to develop partnerships with the private sector is particularly valuable.
- Participate in teaching and training at the graduate level (both M.Sc. and Ph.D. students), as well as supervising post-doctoral fellows and research personnel.

REQUIREMENTS

- A doctoral degree in a relevant discipline (physics, materials science, engineering, chemistry).
- An outstanding record of research accomplishments that will enable her/him to successfully develop a strong independent research program.
- The aptitude for teaching and supervising graduate students and other trainees.
- The ability to work in a multidisciplinary team and within research networks.
- The ability to collaborate with industrial partners.

WORKING LANGUAGE

French is the official language at INRS. Fluency in English is required. Candidates whose native language is not French are encouraged to apply. The Centre will provide them with all the resources necessary to facilitate their learning of the French language.

WORKPLACE

Institut national de la recherche scientifique (INRS)

Centre Énergie Matériaux Télécommunications
1650, boulevard Lionel-Boulet, Varennes (Québec) J3X 1S2 CANADA
Varennes is located on the South Shore of Montreal.

SALARY

Salary and benefits are in accordance with the current collective agreement at INRS.

HOW TO APPLY

Interested applicants should send their application including a complete curriculum vitae, a copy of their three most significant publications, a three page summary of their research interests, a statement of teaching experience and philosophy, and the names and contact information of three referees, before **November 15th 2018** indicating position number AP 18-07 by e-mail at concours@emt.inrs.ca or by mail to:

Director

Institut national de la recherche scientifique (INRS)
Centre Énergie Matériaux Télécommunications
1650, boulevard Lionel-Boulet, Varennes (Québec) J3X 1S2 CANADA
concours@emt.inrs.ca

INRS subscribes to an equal access employment program and an equity employment program.
The Institute invites women, visible minorities, ethnic minorities, natives and people with disabilities to apply.
Priority will be given to candidates with Canadian citizenship or permanent resident.

WWW.INRS.CA

INRS
UNIVERSITÉ DE RECHERCHE
A RESEARCH UNIVERSITY

PROFESSOR ULTRAFAST SCIENCE (AP 18-08)

INSTITUT NATIONAL DE LA RECHERCHE SCIENTIFIQUE (tenure-track position)

CONTEXT AND SUMMARY

The Institut national de la recherche scientifique (INRS) is the only academic institution in Québec (Canada) dedicated exclusively to research and training at the graduate level. The influence of our faculty, researchers, and students extends worldwide. In partnership with the scientific community and the private sector, we are proud to contribute to societal development through our discoveries and through the training of young scientists.

INRS – Énergie Matériaux Télécommunications (EMT) Research Centre would like to hire a new faculty in the area of **Ultrafast Science** aiming at the transfer of knowledge and technologies to sectors such as photonics, advanced materials, energy, and healthcare. The areas of expertise of interest include: high-power femtosecond lasers for probing, imaging, and controlling the dynamics of ultrafast phenomena in matter, applied to atomic and molecular optical physics, and condensed matter physics. Other related areas may also be considered.

The Centre hosts the unique major research Infrastructure of Nanostructures and Femtoscience (<http://lmn.emt.inrs.ca/EN/inf.htm>), which comprises the Advanced Laser Light Source, the Laboratory of Micro and Nanofabrication, and the Infrastructure for Advanced Imaging.

This new position is intended to build a critical mass of expertise around a major \$13.9M addition, the Advanced infrastructure for dynamic imaging and control of complex systems – ALLS+, awarded by the Canada Foundation for Innovation (CFI) in the 2016 competition. ALLS+ includes high average power Ytterbium lasers to derive a continuum of sources from the THz to the X-ray spectral range. Combined with “Angular Resolved Photoelectron Spectroscopy” (ARPES) and other techniques, these sources will be used to investigate ultrafast phenomena. ALLS+ adds to the current ALLS facility. The new faculty will work in an environment where about forty professors-researchers undertake leading-edge research and training in diverse areas of sustainable energy, advanced materials, ultrafast photonics, telecommunication systems and nanobiotechnology.

MAIN DUTIES AND RESPONSIBILITIES

- Develop an original and innovative program, capitalizing on the ALLS infrastructure.
- Secure external funding from a variety of granting agencies, also involving various partners from the public and private sectors whenever needed/pertinent.
- Establish collaborations with research teams already in place, while developing or maintaining partnerships with groups outside the EMT research center. The ability to develop partnerships with the private sector is particularly valuable.
- Participate in teaching and training at the graduate level (both M.Sc. and Ph.D. students), as well as supervising post-doctoral fellows and research personnel.

REQUIREMENTS

- A doctoral degree in a relevant discipline (physics, chemistry, engineering, materials science).
- An outstanding record of research accomplishments that will enable her/him to successfully develop a strong independent research program.
- Academic and technical expertise that are complementary to the existing faculty at EMT (<http://www.emt.inrs.ca/les-professeurs/mosaïque/6>)
- The aptitude for teaching and supervising graduate students and other trainees.
- The ability to work in a multidisciplinary team and within research networks.
- The ability to collaborate with industrial partners.

WORKING LANGUAGE

French is the official language at INRS. Fluency in English is required. Candidates whose native language is not French are encouraged to apply. The Centre will provide them with all the resources necessary to facilitate their learning of the French language.

WORKPLACE

Institut national de la recherche scientifique (INRS)

Centre Énergie Matériaux Télécommunications
1650, boulevard Lionel-Boulet, Varennes (Québec) J3X 1S2 CANADA
Varennes is located on the South Shore of Montreal.

SALARY

Salary and benefits are in accordance with the current collective agreement at INRS.

HOW TO APPLY

Interested applicants should submit their application including a complete curriculum vitae, a copy of their three most significant publications, a three page summary of their research interests, a two page statement of teaching experience and philosophy, and the names and contact information of three referees, before **November 15th 2018** indicating position number AP 18-08 by e-mail at concours@emt.inrs.ca or by mail to:

Director

Institut national de la recherche scientifique (INRS)
Centre Énergie Matériaux Télécommunications
1650, boulevard Lionel-Boulet, Varennes (Québec) J3X 1S2 CANADA
concours@emt.inrs.ca

INRS subscribes to an equal access employment program and an equity employment program.
The Institute invites women, visible minorities, ethnic minorities, natives and people with disabilities to apply.
Priority will be given to candidates with Canadian citizenship or permanent resident.

WWW.INRS.CA

INRS
UNIVERSITÉ DE RECHERCHE
A RESEARCH UNIVERSITY




FACULTY POSITIONS

**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, Dr. Michitoshi Hayashi
Center for Condensed Matter Sciences
National Taiwan University
Taipei 106, Taiwan
Center Assistant: Wei-Lin Chou
Email: cwli1828@ntu.edu.tw
Phone: 02-3366-5201
Fax: 02-2365-5404

Closing date for applications is **November 30, 2018**.



UNIVERSITY OF MINNESOTA

Tenure-Track or Tenured Faculty Position

The Department of Chemical Engineering and Materials Science at the University of Minnesota (www.cems.umn.edu) seeks to fill a faculty position at the tenure-track Assistant, tenured Associate or tenured Professor level, commensurate with experience. Outstanding candidates with a Ph D degree in any area related to chemical engineering and materials science will be considered. Candidates should have a distinguished academic and research record and a commitment to teaching in a highly interdisciplinary department. Successful candidates will be expected to carry out vigorous programs of original research at a world-class level, advise graduate students, teach a broad range of undergraduate and graduate courses in the Department of Chemical Engineering and Materials Science, and participate in Departmental and University governance.

Applications consisting of a cover letter, CV (including a list of publications), research statement, teaching statement, and a list of three references must be submitted online. Visit <https://humanresources.umn.edu/jobs> and search for the appropriate posting: 325881 (Assistant); 325898 (Associate); 325904 (Professor). Please only apply to one posting. Review of applications will begin immediately and continue until the position is filled. The successful candidate will be in place as early as Fall 2019.

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

FACULTY POSITIONS

Computational Materials Science

The Thayer School of Engineering at Dartmouth seeks to fill a faculty position in computational materials science and engineering. The successful candidate will have a doctorate in materials science, engineering, or a closely-related field, and will show promise of leading an externally-funded research program targeting transformational advances in biomaterials and/or energy conversion/utilization materials via computational modeling and prediction. The candidate will be a gifted teacher with motivation and expertise that complements the Thayer School's interdisciplinary approach to engineering education. The successful candidate will contribute to a distinctive research and education program addressing innovative technological responses to societal challenges. The Thayer School of Engineering is planning a significant expansion of faculty and programs, and this position is one of several hires in Materials Science.

Review of applications will begin **December 1, 2018**. Interested candidates should submit a cover letter, complete CV, statement of research and teaching interests and philosophy, and contact information for three references via Interfolio at: apply.interfolio.com/53233.

Inquiries about the position should be directed to Professor Ian Baker, Ian.Baker@Dartmouth.edu.

Dartmouth is a member of the Ivy League and consistently ranks among the world's greatest academic institutions. Home to a celebrated liberal arts curriculum and pioneering professional schools, Dartmouth has shaped the education landscape and prepared leaders through its inspirational learning experience. The College has forged a singular identity, combining its deep commitment to outstanding undergraduate liberal arts and graduate education with distinguished research and scholarship in the Arts and Sciences and its three leading professional schools—Geisel School of Medicine, Thayer School of Engineering, and Tuck School of Business. For more information see <http://engineering.dartmouth.edu>.

Home to Dartmouth College, the Upper Connecticut Valley is a vibrant, academic, and professional community offering excellent schools, lively arts, and an unmatched quality of life in a beautiful setting. Amenities associated with urban areas in Boston, MA, Burlington, VT, and Montreal, QC are all within a few hours' drive.

Dartmouth College is an equal opportunity/affirmative action employer with a strong commitment to diversity and inclusion. We prohibit discrimination on the basis of race, color, religion, sex, age, national origin, sexual orientation, gender identity or expression, disability, veteran status, marital status, or any other legally protected status. In that spirit, we are particularly interested in receiving applications from a broad spectrum of people, including women, minorities, individuals with disabilities, veterans or any other legally protected group.





MATERIALS SCIENCE & ENGINEERING

TEXAS A&M UNIVERSITY

TENURE-TRACK FACULTY POSITION

Department of Materials Science and Engineering

The Department of Materials Science and Engineering at Texas A&M University invites applications for a tenured or tenure-track faculty position in the area of mechanical behavior of advanced structural materials. Although candidates at the assistant professor level are preferred, exceptionally well-qualified applicants will be considered for appointment at the rank of associate or full professor.

The successful applicant will have a unique opportunity to interface with growing interests and capabilities at the university in mechanical phenomena at very small scales (micro- and nano-) and how they influence and control macro-scale deformation and failure. Relevant expertise includes new mechanical testing methods, including those used at small scales, and advanced microstructural characterization techniques for examining deformation microstructures. The successful applicant will be required to teach, advise, and mentor graduate students; develop an independent, externally funded research program; participate in all aspects of the department's activities, and serve the profession. Strong written and verbal communication skills are required. Applicants should consult the department's website to review our academic and research programs (<http://engineering.tamu.edu/materials>).

REQUIRED EDUCATION AND EXPERIENCE

Applicants must have, at the minimum, an earned doctoral degree in materials science and engineering or a closely related engineering or science discipline.

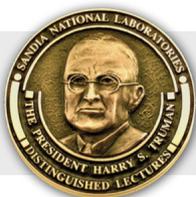
TO APPLY

Applicants should submit one merged pdf file that contains a cover letter, curriculum vitae, teaching statement, research statement, and a list of four references (including postal addresses, phone numbers and email addresses) by applying for this specific position at https://tamus.wd1.myworkdayjobs.com/en-US/TEES_External/job/College-Station-TEES/Assistant--Associate-or-Full-Professor-in-Materials-Science---Engineering_R-008073. Full consideration will be given to applications received by **October 31, 2018**. Applications received after that date may be considered until position is filled. It is anticipated the appointment will begin Fall 2019.

Texas A&M Engineering is all Equal Opportunity/Affirmative Action/Veterans/Disability employers committed to diversity. It is the policy of these members to recruit, hire, train and promote without regard to race, color, sex, religion, national origin, age, disability, genetic information, veteran status, sexual orientation, or gender identity.



Sandia National Laboratories



Seeking Applicants!

President Harry S. Truman Fellowship

Sandia National Laboratories is seeking applicants for the President Harry S. Truman Fellowship in National Security Science and Engineering. The Fellowship provides the opportunity for new Ph.D. scientists and engineers to pursue independent research of their own choosing that supports Sandia's purpose of developing advanced technologies to ensure global peace.

Apply online at: sandia.gov/careers
Click on "View all Jobs" search "Truman Fellowship"
or Job ID: 661914

All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, or veteran status.



The Montanuniversität Leoben, Austria, has a vacancy available for a
University Professor
for the chair of

Advanced Ceramics and Micro-Electronic Systems

pursuant to § 98 UG with effect from 1 October 2019 in the form of an unlimited employment contract under public law with the Montanuniversität Leoben in accordance with the Salaried Employees Act, on a full-time employment basis.

For this chair, the Montanuniversität Leoben seeks an internationally qualified researcher who represents the discipline of Advanced Ceramics and Micro-Electronic Systems in research and teaching and who can demonstrate excellent research results in the area of high-performance ceramics and multi-material systems for microelectronics including these ceramics.

In the area of teaching, the person to be appointed shall be responsible primarily for supervising the subject areas of structural and functional ceramics as well as materials for microelectronics including the relevant characterization and simulation methods.

Detailed information and appointment requirements may be found at www.unileoben.ac.at.

Information can be obtained from the Chair of the Appointments Committee, Univ.-Prof. Dr. Christian Mitterer
Franz-Josef-Straße 18, A-8700 Leoben, Austria
Tel: +43-3842-402-4220, E-mail: christian.mitterer@unileoben.ac.at