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Reports snapshots of work in progress on key materials topics identified by MRS Meeting programming.

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Accepts Review Articles, Commentaries and Perspectives by proposal or invitation.

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Provides thematic materials overviews, research news, industry and policy developments, and MRS and materials community news and events.

Accepts Theme Topics and Articles by invitation or proposal.

MRS MATERIALS RESEARCH SOCIETY

CAMBRIDGE UNIVERSITY PRESS

NC STATE UNIVERSITY

Faculty Positions in Structural Materials Department of Materials Science and Engineering

The Department of Materials Science and Engineering at North Carolina State University is seeking to hire multiple outstanding individuals in open rank tenured/tenure-track faculty positions in the general area of structural materials.

Successful candidates will have achieved or be on a trajectory for international prominence, and senior candidates will have demonstrated vision and skills to lead collaborative, multi-disciplinary research efforts. The successful candidate will be expected to establish a funded, independent research program as well as to collaborate with other researchers at NC State. The candidate will be expected to teach at both the undergraduate and graduate levels. In-depth knowledge of the processing/structure/properties/deformation physics of metallic materials is desired. The successful candidates will be experimentalists. Examples of possible research interests include the following:

- Processing of metallic materials, especially additive manufacturing
- Alloying behavior and design
- Mechanical behavior of materials in extreme environments
- Light-weight materials
- Deformation mechanisms of metallic materials with novel microstructures
- Microstructural modifications to optimize mechanical properties
- Refractory alloys for elevated temperature applications

A Ph.D. degree in Materials Science and Engineering or a related field is required (must have by the date of hire), as well as demonstrated ability in teaching and research. We also value individuals who demonstrate a commitment to fostering creative teaching and instructional methods to enhance our undergraduate and graduate curricula.

Faculty have numerous opportunities for engagement with major research centers and facilities such as the NC State Analytical Instrumentation Facility, Research Triangle Nanotechnology Network, DOE PowerAmerica Institute, the ASSIST NSF Engineering Research Center, the Center for Additive Manufacturing and Logistics, the NSF Center for Dielectrics and Piezoelectrics, and the NC State High-Performance Computing facility.

The Materials Science and Engineering Department at NC State is a top 20 department with 27 faculty, and about 150 undergraduate and 150 graduate students. The department is located on the NC State Centennial Campus in Raleigh, North Carolina. Raleigh is typically listed as one of the best cities in which to live, and is known for its mild climate, vibrant cultural community, affordable housing, and excellent business climate. It is part of the thriving Research Triangle area.

Candidates must provide a cover letter, curriculum vitae, a research statement, teaching statement, and contact information for references. These materials may be submitted online at: <https://jobs.ncsu.edu/postings/122419> (reference position number 00000625). Inquiries are invited and may be directed to the search chair at structural-search@ncsu.edu.

If you have general questions about the application process, you may contact Human Resources at (919) 515-2135 or workatncstate@ncsu.edu. Individuals with disabilities requiring disability-related accommodations in the application and interview process, please call 919-515-3148.

NC State University is an equal opportunity and affirmative action employer. All qualified applicants will receive consideration for employment without regard to race, color, national origin, religion, sex, gender identity, age, sexual orientation, genetic information, status as an individual with a disability, or status as a protected veteran.



ASSISTANT PROFESSOR

Theoretical Quantum Condensed Matter Physics



The Department of Physics and Astronomy at the University of Pennsylvania seeks applications from outstanding candidates for an appointment as Assistant Professor in theoretical quantum condensed matter physics. The successful candidate will develop an innovative research program on quantum phenomena in condensed matter that attracts the participation of students and creates collaborative links with other Penn scientists and engineers. The candidate should have a PhD degree in physics at the time of appointment, and will be expected to teach, to attract external research funding, and to contribute actively to the Laboratory for Research on the Structure of Matter.

Applicants must apply online at <http://apply.interfolio.com/66353>. Required application materials include: curriculum vitae with a list of publications, a research statement, a teaching statement, and three letters of recommendation. Review of applications will begin no later than November 1, 2019 and will continue until the position is filled. It is anticipated that the position will start July 1, 2020.

The Department of Physics and Astronomy is strongly committed to Penn's Action Plan for Faculty Diversity and Excellence and to creating a more diverse faculty (for more information see <http://www.upenn.edu/almanac/volumes/v58/n02/diversityplan.html>). The University of Pennsylvania is an equal opportunity employer. Minorities/Women/Individuals with disabilities/Protected Veterans are encouraged to apply.



science



transfer



talent



Scientist Positions

at IMDEA Materials Institute

IMDEA Materials Institute is a public research organization founded in 2007 by Madrid's regional government to carry out research of excellence in Material Science and Engineering by attracting talent from all over world to work in an international and multidisciplinary environment. IMDEA Materials has grown rapidly since its foundation and currently includes more than 120 researchers from 17 nationalities and has become one of the leading research centers in materials in Europe which has received the María de Maeztu seal of excellence from the Spanish government. The research activities have been focused in the areas of materials for transport and materials for energy and the Institute has state-of-the-art facilities for processing, characterization and simulation of advanced materials. More information can be found at <https://materials.imdea.org/>

The strategic plan of the Institute is aimed at expanding the research activities into the area of Materials for Health Care with the support of the Maria de Maeztu program. To this end, IMDEA Materials has opened two new positions of either Researchers (tenure-track) or Senior Researchers (tenured) in the following areas:

Materials and scaffolds for biomedical applications. He/she will bring expertise in the areas of cell culture, tissue growth, biocompatibility, bioactive agents for cell proliferation, etc. and is expected to take advantage of the current capabilities of the institute in advanced processing, characterization and simulation of materials to establish a multidisciplinary program. (Reference IC2019_01).

Biomechanics of biological tissues, including characterization, modelling and simulation of the mechanical behavior of healthy and pathological biological tissues and their interaction with implants, prosthesis and orthosis. He/she is expected to interact with the strong program in multiscale materials modelling in the Institute to expand its activities into the area of biological materials. (Reference IC2019_02).

Candidates should hold a doctoral degree in Materials Science (or related discipline) and demonstrate the ability to carry out independent research which combines high quality scientific research with technology transfer to industry, particularly for senior appointments. Leadership to develop an independent group within the institute's framework of research activities and good communication skills are required.

Interested candidates should submit their Curriculum Vitae (including complete contact information for two references) and a one-page statement of their research objectives through the institute's website (<http://jobs.materials.imdea.org/>). Selected candidates will be offered a five-years contract (for tenure-track appointments) with competitive salary and a generous start-up package.

jobs.materials@imdea.org | tel. +34 91 549 34 22

C/ Eric Kandel, 2. Tecnogetafe. 28906, Getafe, Madrid (Spain)



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HR EXCELLENCE IN RESEARCH



TENURE-TRACK OR TENURED 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) seeks to fill a faculty position at the tenure-track Assistant, tenured Associate or tenured Professor level, commensurate with experience. Outstanding candidates with a PhD 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 #332117. Review of applications will begin immediately and continue until the position is filled. The successful candidate will be in place as early as Fall 2020.

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

FACULTY POSITIONS



Materials Science and Engineering University of Pennsylvania

The Department of Materials Science and Engineering within the School of Engineering and Applied Science at the University of Pennsylvania seeks outstanding applicants for tenure-track assistant professorships. Applicants for tenured associate and full professorships will also be considered. The department is interested in candidates with expertise in any aspect of materials science and engineering.

Deadline for applications is **November 1, 2019**.

Applications must be submitted online at <https://apply.interfolio.com/65160>.

Additional instructions are available at <https://mse.seas.upenn.edu/open-faculty-positions/>.

The University of Pennsylvania values diversity and seeks talented students, faculty and staff from diverse backgrounds. The University of Pennsylvania is an equal opportunity and affirmative action employer. Candidates are considered for employment without regard to race, color, sex, sexual orientation, gender identity, religion, creed, national or ethnic origin, citizenship status, age, disability, veteran status or any other legally protected class.

mrs.org/careers-advancement



**MRS Career Central is a one-stop shop
for all your career development needs.**

Hosted on our Career Central website, **the MRS Job Board is FREE to job seekers**, serving as the first place to turn to find job openings in the materials science field. The Job Board allows quick and easy access to hundreds of industry-specific job listings, anonymous resume posting and job-alert options to meet your specific needs.

Career Fairs at MRS Spring and Fall Meetings continue to serve as forums to expand your career or your company—providing on-site job interviews, mentoring sessions, resume critiques and mock interviews.

Additional Professional Development sessions or workshops are also offered at MRS Meetings and may include:

- ◆ Preparing for Your Next Job Interview
- ◆ Negotiating a Job Offer
- ◆ Essentials of Getting Your Work Published
- ◆ How to Use Your Social Media to Connect with Your Colleagues and the Press

ASSISTANT PROFESSOR Experimental Soft Matter Physics



The Department of Physics and Astronomy at the University of Pennsylvania seeks applications from outstanding candidates for an appointment as Assistant Professor in experimental soft matter physics, broadly defined. The successful candidate will develop an innovative research program that attracts the participation of students and creates collaborative links with other Penn scientists and engineers. The candidate should have a PhD degree at the time of appointment, and will be expected to teach, to attract external research funding, and to contribute actively to the Laboratory for Research on the Structure of Matter.

Applicants must apply online at <http://apply.interfolio.com/67423>. Required application materials include: curriculum vitae with a list of publications, a research statement, a teaching statement, and three letters of recommendation. Review of applications will begin no later than November 1, 2019 and will continue until the position is filled. It is anticipated that the position will start July 1, 2020.

The Department of Physics and Astronomy is strongly committed to Penn's Action Plan for Faculty Diversity and Excellence and to creating a more diverse faculty (for more information see: <http://www.upenn.edu/almanac/volumes/v58/n02/diversityplan.html>). The University of Pennsylvania is an equal opportunity employer. Minorities/Women/Individuals with disabilities/Protected Veterans are encouraged to apply.