



IOWA STATE UNIVERSITY

Assistant Professor

Department of Materials Science and Engineering

The Department of Materials Science and Engineering (<http://mse.iastate.edu>), in the College of Engineering at Iowa State University invites applications for the position of Assistant Professor in the areas of inorganic materials (e.g., ceramic and metallic materials). This is a tenure-track faculty position. Hiring at the rank of Assistant Professor is preferred, but exceptional candidates with commensurate experience and proven track record will be considered for Associate and Full Professor ranks.

Successful candidates will be expected to establish, sustain and grow a world-class research program that complements or aligns with the department's areas through independent and collaborative efforts, establish a record of scholarship at the highest levels, contribute to the teaching missions at the undergraduate and graduate levels, engage in institutional service as well as service to the profession. Candidates should have strong communication skills, share our commitment to enhancing excellence through diversity and inclusion and exhibit the potential for long term leadership in supporting the mission of the department, college and university.

The Department of Materials Science and Engineering is committed to sustaining a collegial, positive, and productive environment for each individual and for the collective benefit of all. All faculty members are expected to exhibit and convey good citizenship within department, college, and university activities, interact collegially and maintain the highest standards of integrity and ethical behavior. The Department of Materials Science and Engineering has 23 tenured and tenure-track faculty members. This department houses a member of the National Academy of Engineering, a Nobel Prize winner, and a member of the National Academy of Inventors. MSE also has 250 undergraduate students, and 56 graduate students. Sponsored research expenditures of the department are over \$13M per year.

ISU has an active and successful dual-career partner placement program and a strong commitment to work-life balance and family-friendly programs for faculty and staff. We are invested in increasing the participation of those traditionally underrepresented in higher education and seek those who share in this mission.

Required Minimum Qualifications:

- Ph.D. or equivalent degree in materials science engineering or a related science field.
- Associate Professor candidates must also meet the university standards for appointment to the rank including significant experience/accomplishments in the candidate's area of expertise.
- Full Professor candidates are required to have national distinction, international recognition, and a substantial scholarly record in their area of expertise in addition to the aforementioned requirements.

Preferred Qualifications:

- B.S. or M.S. in materials science and engineering.
- Expertise in either ceramic materials or metallic materials, such as their synthesis/processing, properties/ performance, characterization; and their applications in sectors such as energy, aerospace, defense, medicine, and electronics.
- Demonstrated interest in university-level teaching at the undergraduate and graduate levels.
- Demonstrated interest in supervising research of graduate and undergraduate students in materials science and engineering.
- Demonstrated interest in writing, submitting, and administration of research proposals for state, federal, non-profit and/or industrial sponsors.
- Demonstrated interest in establishing industrial, federal laboratory, university, and/or international collaboration(s) in a related area.

Iowa State University (<http://www.iastate.edu>) is classified as a Carnegie Foundation Doctoral/Research University-Extensive, a member of the Association of American Universities (AAU), and ranked by *U.S. News & World Report* as one of the top public universities in the nation. More than 36,000 students are enrolled and are served by over 6,200 faculty and staff.

All applications must be submitted electronically at <http://bit.ly/msefaculty>. To ensure consideration, please apply by **November 15, 2019**.

We expect the successful candidate to be in place by March 2020. If you have questions regarding this position, please contact Dr. Peter Collins at pcollins@iastate.edu or 515-294-5127. Please direct questions regarding the application process to employment@iastate.edu or 1-877-477-7485 (toll-free).

Iowa State University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITIONS



MITMECHE

DEPARTMENT
OF MECHANICAL
ENGINEERING

Massachusetts
Institute of Technology

The Massachusetts Institute of Technology (MIT) Department of Mechanical Engineering seeks candidates for faculty positions starting July 1, 2020 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 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 also has a dedicated search with the Institute for Data, Systems, and Society in Control, Autonomy and Intelligent Systems. For details, please refer to the special advertisement on our website at [https://meche.mit.edu/faculty positions](https://meche.mit.edu/faculty%20positions).

Applicants should send a curriculum vitae, 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/> by **December 15, 2019** when review of applications will begin.

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



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



Tenure-Track Faculty Position CHEMICAL ENGINEERING

The Department of Chemical and Environmental Engineering seeks applicants for a tenure-track faculty position at the Assistant Professor level with the anticipated start date of July 2020. The search is focused on scholars holding (or soon to hold) a PhD or equivalent degree in chemical engineering or a related discipline, and having research expertise in chemical engineering, with a focus on advanced heterogeneous catalysts and soft matter that enable new technologies for solving global energy challenges.

This area ties traditional strengths of the chemical engineering field in advanced materials synthesis, processing and integration into industrial scale processes with the forefront of energy research, and reflects Yale University's science and engineering strategic initiatives. Candidates will be sought who can establish strong collaborative efforts within the Department as well as with the Yale Energy Sciences Institute.

Applications should include a cover letter, CV, three representative publications, a description of research and teaching interests, and the names and email addresses of three references to <http://apply.interfolio.com/70097>. Review of applications will commence immediately and will continue until the position is filled. If you have any questions or concerns, contact Ben McManus, department chair's assistant, at felix.mcmanus@yale.edu.

Yale University is an Affirmative Action/Equal Opportunity employer. Yale values diversity among its students, staff, and faculty and strongly welcomes applications from women, persons with disabilities, protected veterans, and under-represented minorities.



Massachusetts Institute of Technology



Come work with us!

The Massachusetts Institute of Technology (MIT) Department of Mechanical Engineering together with the Institute for Data, Systems, and Society (IDSS) seeks candidates for tenure-track faculty positions in Learning for Dynamics and Control, Autonomy, and Intelligent Systems to start July 1, 2020 or on a mutually agreed date thereafter. Appointments will be at the assistant or untenured associate professor level. In special cases, a senior faculty appointment will be considered.

We are looking for candidates with proven excellence in research who have the vision and interest to contribute to interdisciplinary research in autonomy and robotics, with fundamental expertise in learning for dynamics and control theories, nonlinear dynamics and physics-based modeling, uncertainty quantification, high dimensional statistics, science of autonomy, intelligent systems, and/or data-driven science and engineering.

We seek candidates who can go beyond current approaches to machine learning in computer vision and natural language processing and address the explosion of real-time data that is emerging from the physical world. Dealing with challenges in data-enabled control and decision making for physical and embedded systems requires a rapprochement of areas such as machine learning, dynamical systems, decision theory, and model-based control with domains such as intelligent autonomous systems, transportation and logistics, power networks, smart cities, manufacturing, healthcare, and smart services.

The Department of Mechanical Engineering and IDSS are 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 IDSS and add to the diversity of the academic community.

Faculty duties include teaching at the undergraduate and graduate levels, advising students, conducting original scholarly research and developing course materials at the undergraduate and graduate levels. Candidates must hold an earned Ph.D. in a field related to Engineering, Physics, Data Science, Computer Science, or Applied Mathematics or a related field by the beginning of employment.

In addition to this search, the Mechanical Engineering department has positions available broadly in mechanical engineering: <http://meche.mit.edu/faculty-positions>

Applicants should send a curriculum vitae, 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-idss/> by December 15, 2019 when review of applications will begin.

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<http://web.mit.edu>