



**Massachusetts  
Institute of  
Technology**

## Faculty Positions Department of Mechanical Engineering

The Massachusetts Institute of Technology (MIT) Department of Mechanical Engineering together with the Schwarzman College of Computing (SCC) seeks candidates for tenure-track faculty positions in Computing for Health of the Planet to start July 1, 2021 or on a mutually agreed date thereafter. The search is for candidates to be hired at the assistant professor level; under special circumstances, however, an untenured associate or senior faculty appointment is possible, commensurate with experience.

The Health of the Planet is one of the most important challenges facing humankind today. The need for a sustainable planet demands integrated research efforts that develop novel fundamental modeling, computation, machine learning and AI methods with technological innovation. Ocean systems are particularly important and in need of both fundamental research and development of breakthrough solutions. A creative *mens et manus* approach is essential to ensure the health and security of our oceans and environment.

We seek candidates who have expertise in computing and data-driven science and engineering, and can apply it to:

- Develop integrated systems using smart sensors and physics-informed machine learning.
- Explore, utilize, and protect our environment and oceans.
- Conduct fundamental and applied research in sensing, acoustics, communications, signal processing, control, autonomy, sea-level and climate change mitigation, environmental hazards, environmental risk assessment, among others.
- Use data for estimation, prediction or control relevant to sustainable mobility, autonomous vehicles, sea transports, and ocean environments and coastal structures.
- Provide usable water, resilient food, and sustainable energy (e.g., desalination, water management, sustainable aquaculture, food security, wind and ocean renewable energy, low emission propulsion) using data-driven models and AI-embedded engineering.

Candidates should contribute to interdisciplinary research in environmental and ocean science and engineering such as marine robotics, sensing, structures, physics, acoustics, ecosystems, food, desalination, and renewable energy with fundamental expertise in one or more of these areas: learning for dynamics, nonlinear dynamical systems, computational modeling, physics-informed machine learning, high dimensional statistics, science of autonomy, intelligent systems, smart sensing, computing devices, decision theory, risk analysis, and data-driven science and engineering.

The Department of Mechanical Engineering and the Schwarzman College of Computing 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 SCC and add to the diversity of the academic community. The successful candidate would have a shared appointment in both the Department of Mechanical Engineering and also the Schwarzman College of Computing, in either the Department of Electrical Engineering and Computer Science (EECS), or in the Institute for Data, Systems, and Society (IDSS).

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. Prior to the start of the appointment, candidates must hold a Ph.D. in a field related to Engineering, Physics, Data Science, Computer Science, or Applied Mathematics or a similar discipline 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>.

Applications must include a cover letter, curriculum vitae, 2-3 page statement of research and teaching interests and goals. In addition, candidates should provide a statement regarding their views on diversity, inclusion, and belonging, including past and current contributions as well as their vision and plans for the future in these areas. They should also provide 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-scc> by December 1, 2020 when review of applications will begin.

*MIT is an Equal Opportunity/Affirmative Action employer.*

<http://web.mit.edu>



## Advancing technical achievement through career development

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.

MRS can also help you to take charge of your professional growth through our expanded portfolio of **career and networking-related resources**. New information is added to the career library often, so check back regularly for the latest tip sheets, templates, career webinars and more.

**Additional Professional Development** sessions or workshops offered virtually and at MRS Meetings may include:

- Virtual Interviewing and the Job Talk
- Networking for Nerds: How to Network and Find Collaborations from Afar
- Career Planning in a Crisis: How to Move Your Career Forward
- Green Cards for Scientific Researchers: How to win your EB-1/NIW case!
- And more!

Visit [mrs.org/careers-advancement](https://mrs.org/careers-advancement) today!

## MATERIALS SCIENCE AND ENGINEERING FACULTY POSITIONS – OPEN RANK UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN



The Department of Materials Science and Engineering (MatSE) at the University of Illinois at Urbana-Champaign is seeking to fill a tenured or tenure track faculty position at any rank in the area of metals, with an emphasis on experimental research. All qualified candidates will be considered; senior and mid-career faculty are encouraged to apply. Faculty members in the department are expected to initiate and sustain a vigorous research program.

Successful candidates are expected to demonstrate a strong commitment to undergraduate and graduate teaching, and to diversity, equity, and inclusion through research, teaching, and/or service endeavors.

Please visit <https://jobs.illinois.edu> to view the complete position announcement and application instructions. Applications received prior to **December 15, 2020** will receive full consideration.

The University of Illinois conducts criminal background checks on all job candidates upon acceptance of a contingent offer. *The University of Illinois System requires candidates selected for hire to disclose any documented finding of sexual misconduct or sexual harassment and to authorize inquiries to current and former employers regarding findings of sexual misconduct or sexual harassment. For more information, visit "Policy on Consideration of Sexual Misconduct in Prior Employment."*

*As a qualifying federal contractor, the University of Illinois System uses E-Verify to verify employment eligibility. The University of Illinois must also comply with applicable federal export control laws and regulations and, as such, reserves the right to employ restricted party screening procedures for applicants.*

Illinois is an EEO Employer/Vet/Disabled - <http://go.illinois.edu/EEO>



**Massachusetts Institute of Technology**

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Faculty duties include teaching at the graduate and undergraduate levels, advising students, and conducting research. Candidates must hold an earned Ph.D. 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, (7) micro/nanoengineering, and (8) data science for design and engineering science.

Please refer to the special advertisement on our website (<http://meche.mit.edu/faculty-positions>) for details.

Applications must include a cover letter, curriculum vitae, 2-3 page statement of research, and teaching interests and goals. In addition, candidates should provide a statement regarding their views on diversity, inclusion, and belonging, including past and current contributions as well as their vision and plans for the future in these areas. They should also include copies of no more than three publications and 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 15, 2020 when review of applications will begin.

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

<http://web.mit.edu>