CEE FACULTY SEARCH - MECHANICS OF PHYSICAL SYSTEMS

The MIT Department of Civil and Environmental Engineering (CEE) in Cambridge, MA invites applications for a tenure-track faculty position at the level of Assistant Professor to begin July 1, 2027, or on a mutually agreed date thereafter.

We seek candidates who will help define the next generation of mechanics, materials, the AI-native engineering of real-world physical systems, and how it connects with the future of infrastructure and the built environment. We are particularly interested in researchers who combine strong foundations in mechanics, materials, and physical modeling with modern computational and data-driven approaches, and who can create new engineering capabilities for infrastructure and physical systems that sense, learn, adapt, and interact with their environment.

Areas of interest include, but are not limited to: physics-grounded AI for materials and mechanics; multiscale, multiphysics mechanics, including coupled thermo-hydro-mechanical behavior, fracture, damage, instability, localization, and heterogeneous materials; geomechanics and the mechanics of infrastructure and energy-transition systems; decentralized intelligence in physical systems, including embedded sensing, inference, control, bio-inspired engineering, living materials, and self-healing systems; and mechanics for climate resilience, resource sustainability, and the energy transition.

We are especially interested in candidates developing new materials and mechanics systems for infrastructure beyond 2050, including complex, adaptive, heterogeneous systems whose behavior emerges across scales and for which classical closed-form models are insufficient while physics remains essential for trustworthy prediction. Applications may include materials and systems for extreme environments such as data centers, nuclear reactors, and emerging geothermal systems, as well as living infrastructure and approaches to mitigating infrastructure aging.

The successful candidate will have demonstrated excellence in original research that advances knowledge in one or more core areas of Civil and Environmental Engineering and will contribute to the Department's programs in materials, mechanics, infrastructure, climate resilience, and energy transition. Faculty responsibilities include teaching at the undergraduate and graduate levels, advising students, conducting original scholarly research, developing new and innovative teaching materials, and participating in the intellectual life of the Department.

Applicants should hold a Ph.D. in Civil or Environmental Engineering, Materials Science and Engineering, Mechanical Engineering, or a related science or engineering discipline by the beginning of employment. Candidates from adjacent fields whose work makes a strong contribution to the mechanics and materials challenges of civil and environmental engineering are encouraged to apply.

Applications should include: (a) curriculum vitae, (b) a research statement, (c) a teaching and mentoring plan, and (d) the names and contact information of 3 reference letter writers, who should upload their letters of recommendation by the application deadline.

Please submit online applications to https://school-of-engineering-faculty-search.mit.edu/cee. To receive full consideration, completed applications should be submitted by December 1, 2026.

MIT is an equal opportunity employer. We value diversity and strongly encourage applications from individuals from all identities and backgrounds. All qualified applicants will receive equitable consideration for employment based on their experience and qualifications and will not be discriminated against on the basis of race, color, sex, sexual orientation, gender identity, pregnancy, religion, disability, age, genetic information, veteran status, ancestry, or national or ethnic origin. Employment is contingent upon the completion of a satisfactory background check, including possible verification of any findings of misconduct or pending investigations from prior employers.