

THE UNIVERSITY OF TEXAS AT AUSTIN

# Multiple Tenure-Track Positions in Mechanical Engineering

The Walker Department of Mechanical Engineering at The University of Texas at Austin seeks applicants for multiple tenure-track positions at the rank of Assistant Professor. Candidates in the following areas of mechanical engineering will be considered. (Candidates are encouraged to view these areas of emphasis in the broadest sense in determining whether they match their research skills and interests.)

**INTERSECTION OF AI AND THERMAL-FLUID SCIENCE & ENGINEERING**, with an emphasis on enhanced thermomechanical reliability for heterogeneous integration. Areas of interest include but are not limited to coupled electro-thermo-mechanical behavior, thermal management, and co-design of electrical, optical, thermal, and mechanical components for AI hardware and emerging information, energy, and biomedical technologies. Approaches that leverage AI methodologies are encouraged.

**ROBOTICS**, with an emphasis on novel hardware and control techniques, including: (a) robotic system design that merges traditional control approaches with machine learning and AI, while having a balanced approach to theory and experimental work; (b) robotic system applications to areas such as manufacturing and medical/surgical robotics, while advancing use of human-centered, bio-inspired, and/or soft robotics principles; (c) autonomous robotic vehicles and transportation systems (land, sea, or air).

**AI AND DATA ANALYTICS (AI+DA) FOR MATERIALS**, with an emphasis on (i.) experimental approaches that integrate AI+DA with the synthesis and/or characterization of materials and devices, or (ii.) computational approaches with a foundation in AI+DA and targeting existing and emerging topics in materials science. Positions in this area are available through UT Austin's Cluster Hiring Program in AI+DA. Candidates may be asked to submit additional materials to the cluster hiring committee.

Candidates must have completed a Ph.D. degree in Engineering or a related field prior to their start date. Successful candidates will be expected to create undergraduate and graduate learning environments that address the needs of students from a variety of backgrounds, with differing learning approaches and abilities, develop an externally sponsored research program, mentor graduate students, collaborate with other faculty, and be involved in service to the university and the profession.

The Walker Department of Mechanical Engineering is committed to supporting the success of all members of our community: students, staff, and faculty. A successful candidate can expect to benefit from and contribute to those efforts. More information about the Walker Department of Mechanical Engineering, including a summary of the [Department's Strategic Plan](#), may be found at [www.me.utexas.edu](http://www.me.utexas.edu).

## Application

Interested applicants should submit the following materials via [apply.interfolio.com/154874](https://apply.interfolio.com/154874): (1) a cover letter, (2) curriculum vitae, (3) research statement, (4) teaching and mentoring statement, and (5) a list of three references. Please see [me.utexas.edu/people/faculty-jobs](http://me.utexas.edu/people/faculty-jobs) for additional information and guidance. Successful candidates will be required to complete an Employment Eligibility Verification form, a background check, and provide documents to verify identity and eligibility to work in the U.S.A.

## Deadlines

For full consideration, applications should be received by **November 15, 2024**.

Equal Employment Opportunity Statement  
The University of Texas at Austin, as an equal opportunity/affirmative action employer, complies with all applicable federal and state laws regarding nondiscrimination and affirmative action. The University is committed to a policy of equal opportunity for all persons and does not discriminate on the basis of race, color, national origin, age, marital status, sex, sexual orientation, gender identity, gender expression, disability, religion, or veteran status in employment, educational programs and activities, and admissions.



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Walker Department  
of Mechanical Engineering  
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