

Assistant Professor – Mechanical Engineering

Position Description

The Department of Mechanical Engineering in the Erik Jonsson School of Engineering and Computer Science at The University of Texas at Dallas (UT Dallas) invites applications for three tenure-system faculty positions in Mechanical Engineering at the rank of Assistant Professor. The department is expanding scholarship in advanced manufacturing and design. Specifically, we seek collaborators in areas of:

- Advanced Manufacturing (e.g., automation, robotics, cyber-physical-socio, assembly systems, Operator 4.0, additive manufacturing, ceramics printing),
- Advanced Design (e.g., design automation, optimization, computational synthesis, design methods, design education, human-centered design).

Applicants from all other areas of mechanical engineering are also encouraged to apply. Teaching responsibilities include undergraduate and graduate level courses in the core curriculum and in the candidate's specialization area. In addition to teaching, the position requires an active agenda of mentoring student scholars and researchers as well as service in the UT Dallas and/or professional community.

Qualifications

Candidates must have a PhD or equivalent degree in mechanical engineering or a related field and demonstrate their commitment to excellence in research, teaching, and service, which includes a strong commitment to principles of diversity, equity, and inclusion. All candidates are expected to work effectively in a highly collaborative, engaging, and dynamic environment comprised of individuals of diverse backgrounds, skills, and perspectives. The appointment commences fall 2023. A doctoral degree is required prior to joining; those with ABD status will be considered at the application/interviewing stage.

The Department/School

The Department of Mechanical Engineering at UT Dallas was founded in 2008, offers BS, MS, and PhD degrees, and, according to 2022 US News and World Report, is ranked as the third best mechanical engineering department among public universities in Texas. The department is home to approximately 1000 undergraduate students, 200 graduate students, and 36 faculty. Our faculty are highly decorated with 11 NSF CAREER awardees and 7 DoD Young Investigator Program awards. The department is primarily housed in a new building with 200,000 square feet for teaching and research, opened in fall 2019, and home to a unique boundary layer and subsonic wind tunnel (BLAST) to support renewable energy research. The close proximity to the UT Southwestern Medical Center and joint graduate programs offers outstanding opportunities for collaborative research.

Application Instructions

Applicants should upload the following via the [online application](#):

- 2-page statement of teaching philosophy describing (at a minimum) their conceptualizations of teaching and learning, teaching and assessment methods, and how their teaching philosophy and practices foster (or will foster) equitable and inclusive learning environments;
- 2-page statement of research interests describing (at a minimum) past, present, and future research and how they have fostered (or will foster) equitable and inclusive research environments;
- 2-page statement of engagement with our stakeholders describing (at a minimum) past, present, and future plans with respect to how to effectively engage beyond the lab and classroom with our diverse students, staff, and faculty in addition to engaging with the community and professional societies;
- cover letter and full curriculum vitae summarizing their interests and their qualifications for the position; and
- full contact information for at least three academic or professional references.

Reviews will commence as applications are received and will continue until the position is filled. Priority will be given to applications received by October 31, 2022, and all applications received before December 31, 2022 will be reviewed.

The University and Community

Rich with visual and performing arts venues, museum districts, professional and semi-professional athletics teams, botanical gardens, accessible trails and so much more, the Dallas-Fort Worth (DFW) metroplex has something for everyone to explore. UT Dallas partners with regional higher education institutions and school districts and with the [Richardson Innovation Quarter](#) (Richardson IQ), a major hub for innovation, entrepreneurship and educational activities.

UT Dallas is committed to graduating well-rounded members of the global community whose education has prepared them for rewarding lives and productive careers in a constantly changing world. A diversity of people, ideas and perspectives is crucial to our vision and mission. UT Dallas is a place where members of the community from all backgrounds are welcomed, treated fairly, and encouraged in their pursuit of excellence.

UT Dallas is consistently ranked among the “Best of the Best Colleges” for LGBTQ Inclusion by Campus Pride. The [Office of Diversity, Equity and Inclusion](#) hosts a variety of programs and initiatives to cultivate a culture of equity and belonging for all members of the campus community. “LilyPad” lactation facilities are located throughout campus. The University currently supports several Employee Resource Groups (ERGs) that are communities of faculty



and staff from various identities along with advocates and allies (e.g., Black Faculty and Staff Alliance, Universal Access ERG, Military and Veteran ERG).

Equal Employment Opportunity/Affirmative Action

The University of Texas at Dallas is committed to providing an educational, living, and working environment that is welcoming, respectful, and inclusive of all members of the university community. The University [prohibits unlawful discrimination](#) against a person because of their race, color, religion, sex (including pregnancy), sexual orientation, gender identity, gender expression, national origin, age, disability, genetic information, or veteran status.

The University of Texas at Dallas is an [equal opportunity/affirmative action](#) university.