

## **HIGH-SPEED COMPUTATIONAL FLUID DYNAMICS FACULTY POSITION IN MECHANICAL ENGINEERING**

The Department of Mechanical Engineering in the College of Engineering and Integrated Design at the University of Texas at San Antonio (UTSA) invites applications for a tenure-track position to be filled by August 2022. The Department is looking for outstanding individuals at the Assistant Professor level with demonstrated research expertise who can help the department strengthen its teaching and research programs. Candidates should have a Ph.D. in Aerospace Engineering, Mechanical Engineering, or a closely related field by the time of employment. Applicants are sought in the research area of computational high-speed aerodynamics. Subfields of interest include but are not limited to: *hypersonic/supersonic aerothermodynamics, compressible flows, transitional and turbulent flows, pressure-gain combustion, chemically-reacting flows, and air-breathing propulsion.*

The successful candidates are expected to build successful, externally funded research programs in collaboration with other units in the department, the College of Engineering, the College of Science, the NASA Center for Advanced Measurements in Extreme Environments (CAMEE) and across the University. UTSA has recently completed a Mach 7 wind tunnel facility and a detonation tube and is constructing a high-enthalpy shock tube. In addition, the university will soon open a new School of Data Science. Applicants that can successfully leverage these resources while demonstrating a creative vision for original research are particularly encouraged to apply. The incumbent must be able to (1) develop an externally funded and internationally recognized research program; (2) supervise graduate students; (3) teach undergraduate and graduate classes in ME; (4) work with others across disciplinary boundaries; (5) show a commitment to inclusion and diversity; and (6) serve the department, College of Engineering, and the University.

UTSA is located in San Antonio, Texas, a vibrant city of more than 1.6 million people, with significant economic growth, numerous industrial establishments, and excellent school districts. The city and the University provide excellent cultural and educational opportunities as well as exceptional employment opportunities. The University, classified as a Minority Serving Institution (MSI) and a Hispanic Serving Institution (HSI), has more than 30,000 students and is the third largest component in the University of Texas System. The Mechanical Engineering Department is housed within the College of Engineering and Integrated Design (CEID) and is ABET accredited with programs at the bachelors, masters, and PhD levels. For more information, please visit the Department of Mechanical Engineering website at <http://engineering.utsa.edu/mechanical/>

Review of applications will begin on November 1, 2021 and will continue until the position is filled. Priority will be given to applications received by October 31, 2021. **Interested candidates must submit an application through the following link: <https://jobs.utsa.edu>**

- Cover letter specifying interest in high-speed aerodynamics,
- List of at least three references with current e-mail address and telephone number,
- A research statement (2-page limit), and a teaching philosophy statement (2-page limit) that includes discussion on the role diversity and inclusion play in an academic environment,
- Curriculum vitae.

Applicants who are selected for interviews must be able to show proof that they will be eligible and qualified to work in the United States by the time of hire. The University of Texas at San Antonio is an Affirmative Action/Equal Opportunity Employer and it is committed to diversity in its faculty and its educational programs. The College of Engineering and Department of Mechanical Engineering at UTSA value equality, and strongly encourage women, minorities, veterans, and individuals with disabilities to apply.