

Manufacturing, Industrial and/or Systems Engineering Positions
College of Engineering and Integrated Design
University of Texas at San Antonio

The [College of Engineering and Integrated Design](#) (CEID) at the University of Texas at San Antonio (UTSA) is seeking applications for two **Assistant Professors in the field of Manufacturing, Industrial and/or Systems Engineering**. The full-time, tenure-track positions, with primary appointments in the Department of Mechanical Engineering will begin in August 2022 and salary will be commensurate with qualifications.

We are interested in candidates with strong expertise in any of the following areas: Operations Research, Data Science, Supply Chain Network Design, and Advanced/Intelligent/Smart Manufacturing. Collaboration with government and industry, along with the wide array of centers and institutes at UTSA is expected. Research aligned with national priorities such as decarbonization of manufacturing; securing supply chain networks, bulk power systems, and/or critical infrastructure is desired. In particular, collaboration with the [Cybersecurity Manufacturing Innovation Institute \(CyManII\)](#) is strongly desired.

Optimally, the successful candidates should perform research in cybersecurity manufacturing (Integration of Information/Operational Technologies; Cyber Physical Systems) with a focus on (1) devising novel artificial intelligence, machine learning, and optimization algorithms tailor-made for automated processes; and (2) designing integrated supply chain networks to provide a robust methodology for sensor-dense manufacturing environments.

The successful candidates must have demonstrated (1) research competencies and capabilities commensurate with an Assistant Professor appointment level in CEID, (2) potential to lead collaborative teams in federally funded interdisciplinary and/or transdisciplinary efforts, and (3) exemplary dedication to inclusion and diversity in all of its forms. The Assistant Professors will join the Department of Mechanical Engineering and are expected to support the upcoming B.S. program in Industrial and Systems Engineering, as well as the current M.S. program in Advanced Manufacturing and Enterprise Engineering, and the M.S. and Ph.D. programs in [Mechanical Engineering](#). The successful candidates will also need to have the ability to work with and be sensitive to the educational necessities of a diverse urban population and be committed to advancing the University's mission as a Hispanic-Serving Institution.

The Department of Mechanical Engineering currently has 21 full-time tenured/tenure-track faculty (5 endowed chairs), 6 full-time non-tenure track faculty, and 1075 undergraduate, 68 M.S., and 48 Ph.D. students, with the doctoral program jointly offered by Southwest Research Institute (SwRI). In addition to the M.S., and Ph.D. degrees in Mechanical Engineering, and a M.S. degree in Advanced Manufacturing and Enterprise Engineering, the B.S. degree in Mechanical Engineering is ABET accredited. UTSA is committed to growth in student opportunities, as indicated by the \$95 million Science and Engineering building completed in summer 2020. Additional information about the Department can be found at <https://engineering.utsa.edu/mechanical/>.

UTSA is one of the 13 University of Texas System's campuses and is located in the City of San Antonio. The Department of Mechanical Engineering and CEID have experienced sustained growth in student population, number of faculty, and research awards. The College includes five departments/schools: School of Civil and Environmental Engineering and Construction Management, Department of Mechanical Engineering, Department of Biomedical Engineering and Chemical Engineering, Department of Electrical and Computer Engineering, and School of Architecture and Planning. Several research centers are also hosted within CEID, including the Texas Sustainable Energy Research Institute, Center for Advanced Manufacturing and Lean Systems, Center for Excellence in Engineering Education, Open Cloud Institute, and Institute for Regenerative Medicine. The University enjoys strong ties with other research institutions and companies located in San Antonio. These include SwRI, CPS Energy, Texas Biomedical Research Institute, Joint Base San Antonio, San Antonio Military Medical Center and UT Health San Antonio.

San Antonio is the seventh largest city in the United States. Located in South Central Texas, San Antonio has mild winters and an affordable cost of living. San Antonio is one of the fastest growing cities in the country and is a hub for engineering, industry, construction, manufacturing, and military activities.

Required Qualifications:

- A. Doctoral degree in Manufacturing, Industrial and/or Systems Engineering or closely-related field,
- B. Potential to establish extramural funding in Manufacturing, Industrial and/or Systems Engineering,
- C. Potential to conduct pedagogical training in Industrial and/or Systems Engineering,
- D. Potential to teach and mentor students, including first-generation or underrepresented students,
- E. Record of publications in high impact journals and/or conferences.

Preferred Qualifications:

- A. Record of excellence in university-level teaching or teaching assistantship, and
- B. Record of excellence in interdisciplinary and/or transdisciplinary research.

Required Application Materials:

- A. A cover letter that summarizes the unique qualities of the applicant.
- B. Curriculum Vitae.
- C. Research and Teaching Statements: include specific plans for developing a nationally recognized research program that is supported by extramural and intramural funding, teaching and mentoring philosophies, examples of courses taught as Teaching Assistant or primary instructor, publications in high impact peer-reviewed journals, and future plans to advance diversity and inclusion in an academic environment (4-page limit).
- D. Three sample publications: Peer-reviewed papers, chapters, submitted manuscripts, or similar.
- E. List of three references: include name, title, email, and telephone contact information.

Given the role of diverse leadership in enabling pathways and serving as a role model for students from historically underrepresented groups, applications, and nominations of diverse candidates from historically underrepresented groups are strongly encouraged. We also encourage applications from women, ethnic and racial minority groups, veterans, and persons with disabilities. Applicants selected for interviews must be able to show proof that they will be eligible and qualified to work in the United States by time of hire. UTSA is an Affirmative Action/Equal Opportunity employer.

Applicants must submit their full application package via UTSA's Candidate Gateway. To apply, you may access the position posting directly by clicking [HERE](#). The review of application materials will begin on the preferred deadline of November 30, 2021 and continue until the position is filled.

For information, please contact:

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