Department of Construction Science and Management
Position for Cluster Hire in Artificial Intelligence

The Department of Construction Science at The University of Texas at San Antonio (UTSA) invites qualified individuals to apply for a tenure-track and/or tenured faculty position at the rank of Assistant, Associate or Full Professor, beginning in August 2019.

The candidates should be interested in fostering collaborative research and education to create interdisciplinary areas of knowledge that will advance the field of Artificial Intelligence (AI) in the construction science and management area. The candidate should be able to perform research in decision making/support, unsupervised deep learning, current/future data for Internet of Things (IoT) and/or Smart Development of Urban Environments. The candidate should be interested in applied research and commercialization of deep learning in the areas of construction. The candidate could focus on developing, profiling and validating Keras based autoencoders for unsupervised learning of complex cognitive decision-making processes for built environments using engineering datasets that might require supercomputers for training but could be deployed in mobile devices.

Responsibilities for the position include developing and teaching courses at the undergraduate and/or graduate levels, conducting scholarly research, pursuing external research funding and making service contributions within the University, the construction industry and the profession. Candidates should have a clear research agenda/strategy and be prepared to pursue externally funded research grants, to develop professional opportunities for students, and to participate in the continuous development of the Department, College and University. It is critical that candidates be interested in, and be adept at, collaborating with faculty from other disciplines within the College and University.

The Department offers a 120-credit-hour B.S. degree in Construction Science and Management accredited by the American Council for Construction Education (ACCE). The Department has over 200 undergraduate students, 7 full-time faculty members and significant industry support and involvement. The Department is part of the College of Architecture, Construction, and Planning located in downtown San Antonio, one of America’s oldest and most vibrant urban environments, where design, construction, and research find unique topics of inquiry.

This position is part of a university-wide cluster hiring initiative, this year in Artificial Intelligence, a part of President Taylor Eighmy’s ambitious vision for UTSA to become an urban-serving, multi-cultural discovery enterprise. UTSA’s research portfolio has increasingly becoming more transdisciplinary, cutting across areas such as cybersecurity, brain health, engineering, biomedicine, public health, educational transformation, sustainability, business and policy. These areas of research have been further fueled by focused faculty cluster hires in areas including cloud computing, cybersecurity, brain health and analytics and data science. This targeted faculty cluster hire in AI will build on and leverage our established research portfolio, propelling our ability to tackle and solve previously unsolvable problems. Hires are
expected to build their own unique programs of research, as well as to collaborate with other hires in this cluster and with colleagues in their home department, college, and other colleges. Furthermore, San Antonio is a recognized cyber-analytics hub. Given the complexity of problems in transdisciplinary fields, and the opportunity for greater government and industry partnerships, UTSA has established The National Security Collaboration Center (NSCC), to support national security and global defense research in cybersecurity and cloud computing, cyber-attack/deterrence, critical infrastructure protection, analytics, high performance computing, AI, machine learning and visualization. These positions will facilitate outstanding collaborative research to further connect partners in the NSCC ecosystem. **NSCC Background:** [https://www.utsa.edu/strategicplan/tactical-initiatives/nscc/index.html](https://www.utsa.edu/strategicplan/tactical-initiatives/nscc/index.html)

**Required Qualifications:**

- A Ph.D. in Construction or AI related discipline. If ABD, the successful candidate must complete all requirements for their degree upon hire.
- Research interest on Artificial Intelligence, Decision Making/Support and/or Machine Learning
- A proven record of recent peer-reviewed publications
- Ability to teach two or more courses in the Construction Science and Management program
- Interest in and experience with collaborative teaming

**Preferred Qualifications:**

- Computer programming (i.e Python)
- Recent research proven capability to obtain external research funds.
- Industry experience.

For the complete position announcement and to apply for the position, please use UTSA’s online application process. Access the UTSA Human Resources website at [https://jobs.utsa.edu](https://jobs.utsa.edu).

**You will be required to submit the following:**

- Letter of interest/narrative statement describing in one to three pages your qualifications for the position, areas of expertise, pedagogical approach, and plan/strategies for future research (including funding sources/programs).
- A Curriculum Vitae.
- A list of at least three references with contact information.
- If ABD, evidence of graduate hours completed and status of progress towards completion.

This is a security sensitive position. Employment is contingent upon a successful background check. The review of completed applications will begin on October 24, 2018 and continue until the position is filled. Applicants who are selected for on-campus interviews must be able to show proof that they will be eligible and qualified to work in the United States by time of hire. Tenure is contingent upon Board of Regents approval for associate and full professor rank. The University of Texas at San Antonio is an Affirmative Action/Equal Opportunity Employer. Women, minorities, veterans, and individuals with disabilities are encouraged to apply.
For additional information, contact the Search Committee Chair, Dr. Suat Gunhan at suat.gunhan@utsa.edu, or the Department Chair, Dr. Tulio Sulbaran at tulio.sulbaran@utsa.edu.