Post-Doctoral Fellow Position in Generative Design and Artificial Intelligence at The University of Texas at Austin

The System Integration and Design Informatics (SiDi) Laboratory (https://sidilab.net) at The University of Texas at Austin is seeking a Post-Doctoral Fellow with a background in generative design, human-AI design collaboration, and/or design education. Highly qualified researchers are strongly encouraged to contact Dr. Zhenghui Sha at zsha@austin.utexas.edu with the subject line "Post-doctoral Application to SiDi Lab." Applications received by May 30, 2022, will receive full consideration; however, applications will be reviewed until the position is filled. To apply for this position, please click HERE. The required application materials include

- CV
- Research statement (up to two pages)
- Two sample publications
- Three references with contact information (at least one reference should be from an academic advisor)

Position Summary

This post-doctoral position is a 12-month, full-time position with a competitive salary package and university benefits that may be renewed for additional years if warranted by ongoing lab needs, continued availability of funds, and satisfactory job performance. The post-doctoral fellow will work closely with the PI and other graduate students to conduct fundamental research to discover the essential elements of generative design thinking and techniques that students must acquire so they can work effectively at the human-technology frontier in engineering. The post-doctoral fellow will also have opportunities to lead cross-institutional and multi-disciplinary efforts with professors and researchers from other collaborating universities.

Requirements and Qualifications

- Ph.D. in Mechanical Engineering or related engineering or science discipline.
- Track record of academic excellence and scholarly work.
- Ability to work in a multi-disciplinary team, and strong communications and presentation skills.
- Working knowledge in deep neural networks, cross-modal representation learning, statistics, and/or metaheuristic.
- Evidence of strong programming skills in Python, MATLAB, and/or R.

Preferred Skills

- Experience in behavioral experimentation and cognitive science in design research.
- Familiar with curriculum development based on research outcomes.
- Technical leadership of multi-disciplinary research projects.

About the Walker Department of Mechanical Engineering

Based on the U.S. News and World Report 2021, the Walker Department's graduate mechanical engineering program is ranked No. 10 in the U.S. (https://www.me.utexas.edu). The department's current faculty members include one Nobel Prize Laureate, two Members of the National Academy of Engineering, 20 NSF CAREER Award Winners, and 68 Tenure/Tenure-Track Faculty. In the Walker Department, faculties and students design and build devices and systems that transform industries and improve lives around the world. A pioneer in areas such as robotics and advanced manufacturing, Texas Mechanical Engineering is the birthplace of selective laser sintering, one of the first and most successful 3D printing technologies.

EEO Statement

The University of Texas at Austin is an equal employment opportunity employer. The University does not discriminate or tolerate harassment on any basis prohibited by applicable federal and/or state law, including race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age, citizenship status, or Vietnam era or special disabled veteran status in recruitment, employment, promotion, compensation, benefits, or training. It has been a long-held policy for the University to maintain a work environment free from discrimination and harassment on the basis of sexual orientation, gender identity, or gender expression. The University of Texas at Austin fosters an environment of open communication and is committed to protecting individuals from retaliation who participate or engage in protected activities.