TEXAS TECH UNIVERSITY™

Ph.D.: Texas Tech University, Texas, USA

Two Ph.D. student positions are available in the Department of Mechanical Engineering at Texas Tech University, USA, anticipated to start in August 2020. Scholarship is available to cover both tuition and living expenses. The candidates will work with Dr. Shu-Xia Tang on the research projects in the fields of **swarm robotic systems** or/and **battery management systems**, and can concurrently work on (shallow) water management systems, oil drilling systems, traffic management systems, 3D printing systems subject to the candidates' own interest. More information about the research can be found at https://www.shuxia-tang.net/.

Shu-Xia Tang received her Ph.D. in Mechanical Engineering in 2016 from the Department of Mechanical & Aerospace Engineering, University of California, San Diego, USA. She is currently an assistant professor at the Department of Mechanical Engineering, Texas Tech University, USA. She is an IEEE senior member and is an IEEE CSS (Control Systems Society) Technical Committee member on Distributed Parameter Systems. She serves as an associate editor of Journal of Control, Automation and Electrical Systems and as an Editorial Board member of IEEE CSS and ASME DSCC (Dynamic Systems and Control Division). Her main research interests are stability analysis, estimation and control design of distributed parameter systems.

Interested candidates should send a CV detailing academic achievements to Dr. Shu-Xia Tang at shuxia.tang@ttu.edu. All applicants must satisfy Mechanical Engineering graduate program admission requirements (website) with good GPAs, and international applicants must obtain satisfactory TOEFL/IELTS scores and also better obtain acceptable GRE scores. Dedicated and self-motivated candidates are in particular encouraged to apply:

- M.S. degree in mechanical engineering, electrical engineering, (applied) mathematics, or related areas (**required**);
- Expertise in MATLAB/SIMULINK or Python, and concrete knowledge in C/C++ (**required**);
- Hands-on experience in experimental testing or/and hardware design (**required**);
- Excellent mathematical skills (preferred);
- Excellent oral and written communication skills (preferred);
- Strong skills in control and optimization (preferred).