GRADUATE RESEARCH ASSISTANT POSITIONs in RF ACOUSTIC MICROSYSTEMS in THE DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING at UNIVERSITY OF TEXAS AT AUSTIN

Dr. Ruochen Lu seeks outstanding and self-motivated candidates to fill two Ph.D. student positions in the Department of Electrical and Computer Engineering at the University of Texas at Austin. The positions are available starting Fall 2022. We are looking for self-motivated graduate students with multidisciplinary backgrounds. The candidate will be working on research projects related to micro/nanomechanical piezoelectric devices, microwave components and circuits, and the design and micro fabrication of mm-wave, low-loss and wideband chip-scale signal processing elements.

The candidates must have strong analytical and communication skills and solid background in mathematics, device physics, and applied electromagnetics. Hands-on experience with micro and nano fabrication techniques, including photolithography, film deposition, reactive ion etching, and fab-related metrology is preferred but not required. Experience in electrical and mechanical design of M/NEMS is also highly valued. Knowledge of non-linearity, piezoelectric materials, resonators, RF or microwave testing, and analog circuit design is also a plus. The researchers in Dr. Lu’s group will also interact with a broader team of researchers and faculty in UT ECE.

The research will be performed in UT Microelectronics Research Center (https://www.mrc.utexas.edu/), where the measurement lab and cleanroom are housed to support research in photonics, microelectronics, nanotechnology, and biotechnology. Detailed information on the facilities can be found on the MRC website.

Interested individuals should apply by contacting Dr. Lu via email (ruochen@utexas.edu). Applicants are required to include their curriculum vitae. Additional information on Dr. Lu’s research group can be found at https://sites.utexas.edu/ruochen/.