

Graduate Research Assistantships on Mechanics or Instrumentation

Two Graduate Research Assistant (GRA) positions are available in the Advanced Sensor Technology Laboratory (ASTL) at the Department of Mechanical and Aerospace Engineering starting immediately.

Graduate Research Assistantship on Mechanics

A doctoral level student or a master level student intending to pursue a doctoral degree is preferred. The research will be focused on the development of micromechanics-based computational models for the study of material fracture and fatigue. A bachelor's degree in mechanical engineering, aerospace engineering, or other related areas is required. Research experience in solid mechanics is preferred.

Qualification Requirements:

- Proficient in applying various mathematic tools to solve mechanics problems. Strong mathematic skills are a must.
- Solid understanding of mechanics
- Knowledge of at least one programming languages (MATLAB, C++, Fortran, Matlab, MathCAD, etc.).
- Experience with Finite Element simulation is a plus

Graduate Research Assistantship on Instrumentation

The research will be focused on the development of microwave antenna sensors or optical fiber sensors. A bachelor's degree in electrical engineering, mechanical engineering, aerospace engineering, instrumentation engineering, or other related areas is required. Research experience in RF or fiber optics is desired.

Qualification Requirements:

- Solid understanding of the basic principle of microwave or optics
- Strong analytical skills in experiment observation and data interpretation
- Hands-on experience with test and measurement of RF or optic systems
- Knowledge of digital data processing is a plus
- Knowledge of electronics and circuit board design is a plus

To apply for these positions, please email detailed CV and Undergraduate/graduate transcript to Prof. Haiying Huang.

Contact: Prof. Haiying Huang
Email: huang@uta.edu
Telephone: 817-272-0563