

# **MICHIGAN STATE UNIVERSITY**

## **PhD positions for Wireless Multi-modal Biosensors**

Application Deadline: Open Until Filled

Dr. [Chunqi Qian's group](#) at Michigan State University College of Engineering and Radiology Department is recruiting motivated PhD students to participate in the invention process of wireless physiological sensors. This an extraordinary opportunity to develop compact and batteryless Self-Oscillation Encoding Telemeter (SET) sensors capable of simultaneously encoding both neuronal voltages and MRI images for sensitivity-enhanced neuronal recording and imaging. Supported by the [National Science Foundation](#), this work will include the design, implementation, and validation of SET sensors for real-time imaging and bio-physiology recordings.

In Dr. Qian's group, students will have opportunities to work at the interface between electrical engineering, neuroscience and biomedical imaging. Candidates with background in electromagnetism, semiconductor device fabrication, radio-frequency circuitry, optoelectronics, electrochemistry, image signal processing or a master's degree in related fields are particularly encouraged to apply. Whatever background originally from, students will obtain multi-disciplinary skillsets during graduate study, gaining competitive advantage to solve practical problems along future career pathway.

Please send a cover letter which includes statements of research accomplishments and career goals; 2) a curriculum vitae; and 3) the names and contact information for three references to [qianchu1@msu.edu](mailto:qianchu1@msu.edu).