Who we are
The ENMED program, founded in 2019, is a collaboration between Texas A&M’s School of Engineering Medicine and the state’s top-ranked Houston Methodist Hospital established to transform health care through the development and training of physician-eers, the development of medical technologies, and translational research. The ENMED physician-eer is a new kind of problem-solving doctor uniquely qualified to address some of health care’s greatest challenges. These graduates receive a medical doctorate and Master of Engineering degree focused on the design and implementation of medical technologies in the same four years through a revolutionary integrated curriculum.

What we want
The post-doctoral fellow will focus on developing MR imaging methodologies – acquisition and post-processing methods – to improve the non-invasive, pre-clinical detection of atherosclerotic disease with an overarching goal to help end heart attacks and strokes. The candidate will work in close collaboration with and at the direction of imaging scientists and the clinical team to develop, test, and validate the imaging methods. The MRI program at the School of Engineering has a beyond-the-state-of-the-art 3.0T whole body scanner, originally conceived at the school, equipped with whole-body high-performance gradients (200 mT/m with a slew rate of 200 T/m/s – Siemens CimaX system). The candidate will have access to top clinicians and researchers within the Texas Medical Center.

What you need to know
Salary: Compensation will be commensurate with the selected hire’s qualifications.
Cover Letter & Resume: A cover letter and resume are strongly recommended.

Required Education and Experience:
Appropriate PhD or D.Sc.

Required Knowledge, Skills, and Abilities:
Knowledge of laboratory maintenance and equipment.
Knowledge of computers and computer software related to the position.
Ability to multi-task and work cooperatively with others.

Preferred Qualifications:
Applicants must have a Ph.D. or D.Sc. in physics, electrical engineering, biomedical engineering, or a related field. Knowledge of MR physics and previous experience with pulse sequence programming – particularly on the Siemens platform - is highly desired. The candidate should have strong written and oral communication skills and should be able to work in an interdisciplinary environment.

Job Duties
Research - Developing Magnetic Resonance Imaging Methodologies - Acquisition and post-processing methods – to improve the non-invasive, pre-clinical detection of atherosclerotic disease with an overarching goal to help end heart attacks and strokes. The candidate will work in close collaboration with and in the direction of imaging scientists and the clinical team to develop, test, and validate the imaging methods.

Data Analysis - Collects, compiles, and analyzes data. Documents and interprets results of experiments and reports to the Principal Investigator. Assist the PI with the preparation and presentation of completed analysis. Prepare data from charts, figures, and manuscripts for papers, meetings, publication, and journals. Preparation of slides for presentation at scientific conferences and meetings. Use applicable software to create database, perform statistical analysis, present data and perform other computer related tasks as directed by supervisor.
**General Laboratory Operation** - Operate all the instrumentation needed for projects and compiling data; makes and records observations and measurements. Coordinates with Principal Investigator to write and present scientific papers, grant proposals, and manuscripts for publication. Participate in joint projects involving faculty, postdoctoral fellows, and technicians.

**Meetings** - Participate in weekly lab meetings with the center and other departments. Participate in joint projects involving the laboratory team. Perform other duties as assigned.

*All applicants must apply on the Texas A&M career site:* [Here](#)