RESEARCH OPPORTUNITY: ENGINEERING MASTER’S STUDENT

Job Title: Master’s Student Researcher

We are presently seeking a part-time Master’s student researcher to assist with the design and development of a new ultrasound system for treatment of brain tumors. Candidates should be a currently enrolled Master’s student, preferably in the field of Biomedical Engineering, Computer Science, Electrical and Computer Engineering, or Mechanical Engineering.

The research involves computer simulations, design, and experimental testing of high-intensity focused ultrasound (HIFU) systems and contribution toward papers, conference presentations, intellectual property, and clinical translation. The position offers a unique opportunity for gaining experience in research and development and working closely with biomedical engineers and clinicians in Neurosurgery. The research is conducted in the Carnegie Center for Surgical Innovation at the JHMI Medical Campus.

Employment Requirements

- Education in Mechanical, Electrical or Biomedical Engineering (preferably second year Master’s student)
- Interest in the medical device industry
- Knowledge of medical imaging, especially in ultrasound
- Initiative and ability to learn fast and work semi-independently
- Strong communication skills (verbal and written)
- Creativity, enthusiasm and a positive attitude
- Strong time management and organizational skills
- Ability to manage and prioritize multiple projects and meet deadlines.
- Proficient with Solidworks/AutoCAD, and Matlab
- Familiarity with Python and/or C++

Interested candidates, please contact:
Amir Manbachi, PhD
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The Carnegie Center for Surgical Innovation is a nationally unique resource for research, education, and translation in imaging and image-guided interventions. Located in the heart of Johns Hopkins Hospital and formed in collaboration between the Department of Biomedical Engineering and Department of Neurosurgery, the Center provides a synergistic co-location of expertise to identify major clinical needs, drive development of new technology, translate advances to clinical use, and cultivate the next generation of engineers and clinicians.