

TENURE TRACK FACULTY POSITION IN BIOMEDICAL
ULTRASOUND IMAGING AND IMAGE- GUIDED
THERAPY

Case Western Reserve University

Direct Link: <https://www.AcademicKeys.com/r?job=243260>

Downloaded On: Oct. 6, 2024 6:31am

Posted Aug. 16, 2024, set to expire Dec. 18, 2024

Job Title TENURE TRACK FACULTY POSITION IN
BIOMEDICAL ULTRASOUND IMAGING AND
IMAGE- GUIDED THERAPY

Department School of Medicine - Biomedical Engineering

Institution Case Western Reserve University
Cleveland, Ohio

Date Posted Aug. 16, 2024

Application Deadline Open until filled

Position Start Date Open now

Job Categories Research Professor
Assistant Professor
Associate Professor
Professor

Academic Field(s) Biomedical Engineering/Biomedical Sciences

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Job Description

The Department of Biomedical Engineering at Case Western Reserve University is pleased to invite applications for a tenure-track position in the area of diagnostic and therapeutic applications of ultrasound with emphasis on image-guided therapy and drug delivery. The position will be within the School of Medicine at the Assistant, Associate or Full Professor level. Rank will be commensurate with experience, funding history and scholarly accomplishments.

Founded in 1826, Case Western Reserve University is a private research university located in

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Cleveland, Ohio. The site of the famous Michelson-Morley interferometer experiment, the university is associated with 16 Nobel laureates. The Department of Biomedical Engineering, which is jointly housed in the School of Medicine and in the Case School of Engineering, was one of the pioneering BME programs in the country (founded 1968), and is home to 29 tenure-track faculty, over 200 graduate students and approximately 500 undergraduate students. Its faculty are international research leaders in biomaterials and nanomedicine, imaging, neural engineering, and computational imaging and personalized diagnostics.

We seek outstanding candidates to establish an internationally-recognized, competitively-funded research program in biomedical ultrasound imaging, ultrasound-based therapies and/or photoacoustic imaging. Candidates who have a strong vision for future research within the ultrasound community are encouraged to apply. This faculty member will also have the potential to lead the imaging collaborations in cancer imaging, neuroimaging and/or between the Departments of Biomedical Engineering, Radiology, Neuroscience and the CWRU Comprehensive Cancer Center. The research areas of interest include, but are not exclusive to: (1) Imaging and therapeutic applications focused on the brain, such as MRI-guided focused ultrasound, blood brain barrier opening, passive cavitation imaging, therapy for neurodegenerative diseases and brain cancer and neuromodulation; (2) oncologic imaging and therapy applications including multimodality imaging, early detection biomarkers, development of methods for early therapy response prediction, development of agents for image guided drug delivery, gene delivery and/or immunotherapy; (3) development of agents and methods for contrast enhanced ultrasound, magnetic particle imaging, and /or quantitative ultrasound; and (4) ultrasound and/or photoacoustic imaging hardware and software including development of transducer technology, real-time acquisition and reconstruction, ultrasound localization microscopy and super-resolution methods, and artificial intelligence driven imaging methods. Clinical translation is a major goal of our program, so previous experience working in the clinical application areas of oncologic imaging and/or neuroimaging is strongly preferred.

The imaging community at Case Western Reserve University is highly collaborative, and thus a demonstrated background in team science is preferred. The candidate is expected to take advantage of the strong corporate imaging research relationships and the world class Case Center for Imaging Research. A doctorate in Biomedical Engineering or a closely related Science/Engineering field is required. The successful candidate is also expected to contribute to the graduate training mission of the department, to contribute to diversity and inclusion, and to engage in departmental, institutional and professional service activities.

Applicants should submit a cover letter, curriculum vitae, statements on (1) research accomplishments and plans and (2) teaching and mentoring plans, (3) copies of three representative journal papers, and (4) the names and contact information of at least four professional referees. Evaluation of applications

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will begin immediately and continue until the position is filled.

EEO/AA Policy

In employment, as in education, Case Western Reserve University is committed to Equal Opportunity and Diversity. Women, veterans, members of underrepresented minority groups, and individuals with disabilities are encouraged to apply. Case Western Reserve University provides reasonable accommodations to applicants with disabilities. Applicants requiring a reasonable accommodation for any part of the application and hiring process should contact the Office of Equity at 216-368-3066 to request a reasonable accommodation. Determinations as to granting reasonable accommodations for any applicant will be made on a case-by-case basis.

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

Contact E-mail <https://apply.interfolio.com/139698>