TENURE TRACK FACULTY POSITION IN ARTIFICIAL INTELLIGENCE IN IMAGING

The Department of Biomedical Engineering at Case Western Reserve University is pleased to invite applications for a tenure-track position in the area of artificial intelligence applied to imaging, which should include both 3D/4D video recordings and magnetic resonance imaging, with an anticipated starting date of September 1, 2022 or thereafter. The position will be within the School of Medicine at the Assistant, Associate or Full Professor level.

Founded in 1826, Case Western Reserve University is a private research university located in Cleveland, Ohio. The site of the famous Michelson-Morley interferometer experiment, the university is associated with 17 Nobel laureates. The Case School of Engineering actively promotes interdisciplinary research collaboration through university-level institutes primarily focused on materials, health care, and energy. 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 150 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. The BME department is also home to the endowed Case-Coulter Translational Research Partnership that promotes translational research and supports collaborative translational research projects to improve patient care and accelerate the delivery of healthcare technology from academia to the marketplace.

We seek outstanding candidates to establish or continue an internationally-recognized, competitively-funded individual research program in magnetic resonance imaging AND who have a strong vision for future research within our rich community. The research areas of interest include, but are not exclusive to: (1) analysis of personal interactions as captured via 3D/4D video recordings; (2) analysis of data from HoloLens-based classrooms to predict educational outcomes; (3) magnetic resonance imaging (MRI) acquisition and reconstruction development and analysis, with a special focus on magnetic resonance fingerprinting (MRF); and (4) analysis and optimization of real-time imaging applications as applied to operating room settings. Clinical translation is a major goal of our program, so previous experience working on clinical applications is strongly preferred. The community at Case Western Reserve University is highly collaborative, and thus a demonstrated background in team science is preferred. A close collaboration with the university’s Interactive Commons (IC) will be expected. The IC is the home to CWRU’s initiatives using augmented and virtual reality displays to investigate both the classroom and operating rooms of the future. The candidate is also expected to take advantage of the strong corporate imaging research relationships and the world class Case Center for Imaging Research, which conducts research for all imaging modalities along a translational continuum from molecules to mice to man. A doctorate in Biomedical Engineering or a closely related Science/Engineering field is required. The successful candidate is expected to contribute to the graduate training mission of the department, 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. In addition, applicants are asked to submit a statement explaining how their research, teaching, and/or service have contributed to diversity, equity and inclusion within their scholarly field(s) and/or how their individual and/or collaborative efforts have promoted structural justice inside and outside institutions of higher learning. This statement should also reflect on the ways in which the candidate’s continued efforts will foster a culture of diversity, pluralism, and individual difference at Case Western Reserve University into the future. Please send these documents electronically in one PDF file to bmeMRI_IC@case.edu. Any
questions can be sent to this same email or directed to 216-368-4064. Evaluation of applications will begin immediately and continue until the position is filled.

Case Western Reserve University is an equal opportunity, affirmative action employer, and is committed to providing employment opportunities to all qualified applicants without regards to race, color, religion, age, gender, sexual orientation, national origin, disability, or protected veteran status. 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 Inclusion, Diversity and Equal Opportunity at 216-368-8877 to request a reasonable accommodation. Determinations as to granting reasonable accommodations for any applicant will be made on a case-by-case basis.