Postdoctoral Position in MRI imaging of cancer at the Albert Einstein College of Medicine

A full-time postdoctoral research position is available in the Integrated Imaging Program at Einstein beginning on or before July 1, 2021. The project involves the use of MRI acquisition and analyses of tumor bearing tissues. The successful applicant will be primarily responsible for investigating phenomena related to tumor cell – macrophage interactions *in vivo* in primary and secondary murine models of breast, pancreatic and other cancers, with the goal of translation to patients. The position will be funded by the Lipper Foundation's Integrated Imaging Program, which focuses on the coordinated use of Einstein's micro and macro imaging technologies. The candidate should have a strong background in data analyses, mathematical modeling, MRI data acquisition and an interest in the mechanisms behind tumor metastasis. Facilities available to the candidate include the resources of the Gruss MRRC including a 9.4 T Agilent Direct Drive spectrometer (soon to be upgraded to a Bruker system) and a research dedicated 3.0 T Philips Elition, as well as the state-of-the-art facilities of the Gruss Lipper Biophotonics Center

The Gruss Magnetic Resonance Research Center (https://www.einstein.yu.edu/centers/gruss-magnetic-resonance-research/) is directed by Dr. Craig A. Branch. The Albert Einstein College of Medicine/Gruss Lipper Biophotonics Center is directed by Dr. John Condeelis (http://www.einstein.yu.edu/centers/biophotonics/). The student will work directly under Dr.'s Branch and Condeelis, and will join other postdoctoral students working within the Integrated Imaging Program.   The Albert Einstein College of Medicine (Einstein) is one of the nation's premier institutions for medical education, basic research and clinical investigation, and proud home to more than 3,000 faculty and staff, 750 medical students and 245 PhD students, including 116 students in the combined MD/PhD programs. As a longstanding national leader in biomedical research, Einstein has 300+ research laboratories and in 2012 the National Institutes of Health awarded Einstein $160 million in funding. Einstein offers challenging, exciting, and rewarding careers for highly talented individuals who are dedicated to advancing pioneering educational and research initiatives. We pride ourselves in our humanitarian mission of serving the community and promoting an academic and working culture that is both supportive and collaborative. At Einstein, science is truly at the heart of medicine. Visit (http://www.einstein.yu.edu/news/) to learn more about Einstein.

Facilities: Research activities will utilize the resources available within the Gruss Lipper Biophotonics Center (http://www.einstein.yu.edu/centers/biophotonics/) and the MRRC (http://www.einstein.yu.edu/centers/gruss-magnetic-resonance-research/). The research will be supported by the Integrated Imaging Program.

Qualifications: The applicant should have an advanced degree in physics, engineering, chemistry, or biomedical engineering, or a related field, although candidates with other backgrounds that include strong research skills and relevant expertise will also be considered. Candidates must be willing to work with live mice. The individual should have programming experience, laboratory skills and instrumentation skills in MRI. Experience with exogenous or other mechanisms for enhancing MRI contrast is considered a plus.

Salary and Benefits: Einstein's postdoctoral salaries depend upon years of postdoctoral experience, and includes benefits.

Please email your cover letter and curriculum vitae to Dr. Craig Branch (craig.branch@einstein.yu.edu) or Dr. John Condeelis (john.condeelis@einstein.yu.edu)

Einstein: The Albert Einstein College of Medicine is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, protected veteran or disabled status, or genetic information. Einstein seeks candidates whose skills, and personal and professional experience, have prepared them to contribute to our commitment to diversity and excellence, and the communities we serve.