Whom we're looking for

Dynamic, creative, and collaborative investigators who want to radically improve imaging technologies and to apply these technologies to answer critical biomedical questions as well as to inform real-time interventional therapies. Areas of interest include, but are not limited to:

- fast image acquisition and reconstruction
- tissue microstructure mapping with diffusion and other modalities
- multi-modality imaging (especially PET-MR)
- CT dose reduction
- MRI hardware engineering
- dynamic image processing and analysis
- deep learning and other AI approaches for improved image acquisition and analysis
- image-guided therapies, including MR-guided Focused Ultrasound (MRgFUS) and beam therapy (MR Linac)

Successful candidates will work with a large, interdisciplinary group of researchers and clinician investigators on shaping the future of medical imaging in science and medicine.

Rank, salary, and tenure status will be commensurate with the qualifications of the candidate.

Who we are

A dynamic, highly collaborative group of over 100 scientists, engineers, physicians, and administrators dedicated to innovation in biomedical imaging and to rapid clinical translation of new technologies.

We operate two translational research centers at NYU Langone Health: the Center for Biomedical Imaging and the Center for Advanced Imaging Innovation and Research (cai2r.net).

Our instrumentation

- four whole-body MRI systems on-site, including PET-MR and 7T systems
- preclinical imaging modalities including 7T MRI, micro PET-CT, optical and ultrasound systems
- state-of-the-art radio-frequency coil engineering laboratory
- radiochemistry facility equipped with a cyclotron and a comprehensive laboratory suite
- upcoming Insightech brain-specific MR-guided High Intensity Focused Ultrasound system
- upcoming MR-Linac particle/radiation therapy system

Interested? Get in touch with us

Address inquiries to:
Christopher Collins, PhD
Professor of Radiology
Director of Research Faculty Affairs
Department of Radiology
NYU School of Medicine
C.Collins@nyumc.org