Postdoctoral Fellow in Radiofrequency Coil Development

Our Center invites applications for a postdoctoral fellowship in the department of radiology at NYU Langone Health. The fellow will join a team working on applying multi-nuclear MRI to breast cancer. A unique aspect of multi-nuclear MRI is its ability to monitor metabolic function, which is disrupted in cancer cells. Our team is developing new radiofrequency coils, pulse sequences, and post-processing schemes to identify breast cancer patients that are most likely to favorably respond to treatment. The multi-nuclear imaging protocol will be developed in close partnership with clinical collaborators for application on our 3 Tesla MRI systems. The postdoctoral fellow will focus on coil development while working with a diverse group of physicists, imaging experts, and radiologists in our multi-disciplinary Center.

Qualifications

- PhD in engineering, physics, biomedical sciences, or related field
- Radiofrequency coil research experience
- Experience with hands-on radiofrequency coil construction
- Publication track record
- Circuit board design and manufacture
- Fluency in high-level software such as Matlab, CAD, and electromagnetic field simulators
- Troubleshooting and problem solving skills
- Experience with the Siemens or other MRI platforms (preferred)

About Us

The Center for Advanced Imaging Innovation and Research (CAI2R, pronounced care) is a National Center for Biomedical Imaging and Bioengineering supported by the National Institute of Biomedical Imaging and Bioengineering (NIBIB) and operated by the Department of Radiology at NYU Langone Health.

CAI2R comprises approximately 150 full-time personnel dedicated to imaging research, development, and clinical translation. Our team is diverse and highly collaborative. We work in interdisciplinary groups that include engineers, scientists, clinicians, technologists, and industry experts.

Joining us means becoming part of a diverse community that values cross-pollination of ideas, celebrates creativity, and nurtures an environment conducive to breakthrough innovations.

Learn more about our mission, our research, our team, and our research facilities at cai2r.net

Timeline, Salary, and Benefits

The anticipated start for this position is early 2023. The initial appointment is for one year, with the intention to renew depending on mutual agreement. Funding supporting this position is available for multiple years. NYU Langone Health offers a competitive salary and benefits package. We welcome both domestic and international applicants. We are committed to diversity and inclusion in all aspects of recruiting and employment. All qualified individuals are encouraged to apply and will receive consideration without regard to race, color, gender, gender identity or expression, sexual orientation, national origin, age, religion, creed, or disability.

To Apply

Email your CV, a list or description of recent projects, and a cover letter describing your interest in the position to Ryan.Brown@nyulangone.org. Include “postdoc” in the subject line.