

Postdoctoral Position in high-field RF engineering for Brain MRI Research

Center for Magnetic Resonance Research (CMRR), University of Minnesota

A postdoctoral appointment is available in the Center for Magnetic Resonance Research (CMRR), at the University of Minnesota under the supervision of Professors Wei Chen and Kamil Ugurbil. The successful candidate will participate in the brain research projects funded by two active NIH BRAIN Initiative grants (U01 EB026978 and U01 EB025144) aiming to develop cutting-edge MRI and MRS techniques for brain application at ultrahigh field. The successful candidate will play a critical role in design, simulation, construction, testing, evaluation and optimization of the radiofrequency (RF) head coils for functional MRI and in vivo MRS imaging applications of human brain covering 7 to 10.5 tesla field strength. Other research opportunities are also available depending on the interests and background of the candidate.

CMRR has outstanding research resource, high- and ultrahigh-field MRI facility, expertise and innovation. It accommodates a large number of advanced human MRI scanners (3x3T, 4T, 2x7T and the world first whole body 10.5T) and two animal MRI scanners (9.4T and 16.4T), which are fully dedicated for basic science and clinical researches.

Applicant should have a Ph.D. degree trained in one of the following fields: electrical engineering, RF engineering, physics, medical physics, computer science or biomedical engineering, in particular, with the MRI related research experience or thesis work. Strong background in MRI physics, RF coil engineering, RF field simulation, computer programming (Matlab and C++), RF pulse sequence, and parallel MRI techniques are desirable.

To apply, please go to The University of Minnesota Employment Website at <https://humanresources.umn.edu/jobs> - Position Number 327787

If you have questions about the position, please contact Professor Wei Chen (wei@cmrr.umn.edu, or chenx075@umn.edu)

Center for Magnetic Resonance Research
University of Minnesota School of Medicine
2021 Sixth Street SE
Minneapolis, MN 55455, USA
Tel:612-625-8814 (office)

The University of Minnesota is an equal opportunity educator and employer. All qualified applicants are encouraged to apply including minorities and women.