**Professor with Tenure**
The University of Minnesota, Twin Cities (UMTC) is among the largest public research universities in the country, offering undergraduate, graduate and professional students a multitude of opportunities for study and research. Located at the heart of one of the nation’s most vibrant, diverse metropolitan communities, students on the campuses in Minneapolis and St. Paul benefit from extensive partnerships with world-renowned health centers, international corporations, governments agencies, and arts, nonprofit, and public service organizations.

**Job Description:**
Research Environment: Center for Magnetic Resonance Research (CMRR)
The CMRR in the Department of Radiology at the University of Minnesota is seeking to fill a tenure full professor position to lead a broad research agenda of innovations and collaborative efforts for advancing novel MRI contrast, functional MRI and functional MRS applications at ultra-high field in both human and animal models. The successful candidate will bring distinct expertise in adopting innovative fMRI strategies with emerging ultra-short echo time sequences to address challenges imposed by susceptibility artefacts such as those originating from implanted electrodes, motion and interference with electrophysiology recording devices, with the ultimate goal of expanding the reach of ultra-high field fMRI applications. The faculty member is also expected to lead MRI innovations for assessing tissue integrity during neurogenerative and neurogenesis processes with greater sensitivity and specificity than what achievable with current methodologies, and to demonstrate unique contributions in functional MRS approaches for non-invasively assessing the energetic metabolic substrates of brain function in the context of current models of neuronal metabolism.

**About the Position:**
The faculty member will contribute his/her expertise in MRI methodologies to the mission of the CMRR, and will work in close interaction with an extensive team of neuroscientists, engineers and physicists. By pursuing his/her own scientific interests, the candidate is expected to enrich and strengthen on-going translational research efforts in neurodegenerative diseases, aging, addiction, diabetes and neuromodulation interventions at the University of Minnesota, and eventually lead programmatic efforts for addressing inter-disciplinary research questions.

Responsibilities will include leading of an independent research agenda, interaction with collaborators, mentoring of students and faculty members, service activities to the CMRR and the University of Minnesota, and pursuit of research and other scholarly activities

**Qualifications:**
Required
PhD in Biophysics
Established MR Scientist with track record in MRI innovations and MRI applications
Established records of translational and collaborative research
Proven leadership and communication skills
Preferred:
Track record of accomplishments in the fields of novel MRI contrasts, emerging fMRI approaches and functional MRS
Specific interest in neuronal metabolism, neurodegeneration, again, diabetes and neuromodulation interventions

The University of Minnesota provides equal access to and opportunity in its programs, facilities, and employment without regard to race, color, creed, religion, national origin, gender, age, marital status, disability, public assistance status, veteran status, sexual orientation, gender identity, or gender expression.

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