



# Washington University in St. Louis

## SCHOOL OF MEDICINE

Mallinckrodt Institute of Radiology

### **Assistant/Associate/Full Professor, Radiology, Human Ultra-High-Field MR**

**Division:** Radiological Sciences

**Track:** Tenure

**Rank:** Commensurate w/Experience

### **Position Description:**

The Mallinckrodt Institute of Radiology (MIR) at the Washington University School of Medicine in St. Louis -- consistently ranked among the top five departments in NIH radiology funding (fourth in 2020, second in 2021, and third in 2022) -- invites applications for two full-time faculty positions on the investigator (tenure) track in human ultra-high field (UHF) MR imaging and spectroscopy. Applications are particularly encouraged from candidates with research interests focused on UHF RF coil and hardware development or novel acquisition and reconstruction methods.

### **Qualifications:**

- PhD, MD/PhD or equivalent degree in the physical sciences or engineering;
- Experience and skill in the development of UHF MR hardware or data acquisition and reconstruction methods;
- Demonstrated potential or success in obtaining extramural funding;
- Demonstrated potential or success in mentoring graduate students and post-doctoral fellows;
- Outstanding communication, writing, and interpersonal skills.

### **Biomedical MR Center (BMRC):**

The selected candidates will join the Biomedical Magnetic Resonance Center (BMRC), one of five research centers housed within MIR. The BMRC comprises approximately 20 faculty members and 50 students, postdoctoral fellows, staff, and clinical fellows. BMRC investigators are pioneers in the development and application of MR techniques and data analytics, providing an understanding of the complex microstructure and biophysical and physiological determinants that govern healthy and diseased tissues. The BMRC offers a collaborative environment for diverse interdisciplinary research initiatives. More information about the BMRC can be found here: <https://www.mir.wustl.edu/research/research-centers/biomedical-mr-center-bmrc/>. The selected candidates will be encouraged to collaborate with the BMRC faculty and the broader imaging community in MIR and other departments at Washington University in St. Louis.

### **Facilities:**

MIR is a preeminent research institute with excellence in magnetic resonance imaging, optical imaging, neuroimaging, PET tracer development and translation, and imaging informatics. MIR has extensive collaborations with other top-ranked departments across the School of Medicine and the University. MIR supports world-class research imaging facilities, including magnetic resonance, nuclear, molecular, and optical imaging resources, and cyclotrons for preclinical and translational research. Human MR research scanners include a Siemens whole-body Terra.X 7T (anticipated delivery in summer 2024), four Siemens Prisma 3T, a Siemens Vida 3T, a Siemens Biograph mMR PET/MR, and two PET/CT (Vision). The MIR small-animal imaging resources include 9.4 T, 4.7 T, and 11.74 T MR scanners, PET/CT and simultaneous PET/MR scanners, and a GE SPINlab hyperpolarization unit. MIR radiologists serve nine hospitals, including the nationally ranked Barnes-Jewish and St. Louis Children's Hospitals, bridging cutting-edge MRI science with clinical excellence.

### **Benefits:**

Washington University provides faculty with generous benefits that include health, life, disability coverage, retirement, and tuition assistance. In addition to these competitive benefits, the university offers a variety of time off and quality-of-life programs. We are a diverse group and wholly encourage diversity to reflect the rich community in which we live and serve. We are committed to promoting an environment that is inclusive and welcoming to all individuals. All qualified applicants will receive consideration for employment without regard to race, color, age, religion, sex, sexual orientation, gender identity or expression, national origin, veteran status, disability, or genetic information.

### **Application Instructions**

Candidates are invited to submit their applications through [Opportunity Details - Faculty Opportunities \(wustl.edu\)](#), including a cover letter detailing qualifications and career goals, a research plan, and a curriculum vitae addressed to Dr. Pam Woodard, Elizabeth E. Mallinckrodt Professor and Chair of the Department of Radiology.

### **Contact for questions**

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[www.mir.wustl.edu](http://www.mir.wustl.edu)