**Job Description**

**Job Title**  
Assistant in Research, 12 Month Salaried (MRI Physicist)

**Job ID**  
55173

**Location**  
Tallahassee, FL

**Full/Part Time**  
Full-Time

**Regular/Temporary**  
Regular

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**Department**

[Department of Psychology](#)

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**Responsibilities**

The MRI physicist will work with the faculty and researchers on implementing, evaluating, and developing novel MRI acquisition and analysis techniques for human MRI scanners with an emphasis on functional brain imaging. The ideal candidate would also work with faculty with expertise in multimodal methods to develop state-of-the-art MR processing techniques and support the integration of other neuroimaging (EEG) or stimulation techniques (tACS, TMS) with MRI. The MRI physicist will:

- Support advanced MRI modalities such as multi-band BOLD fMRI, and multi-echo BOLD fMRI
- Oversee data quality assurance/quality control (daily/weekly) of existing MR equipment to maintain the integrity of experimental data
- Provide scientific and technical assistance to researchers and faculty
- Assist researchers and faculty to implement published pulse sequences and develop novel pulse sequences to advance the state of the art in MRI
- Supervise a staff technician, faculty, post-doctoral fellows, graduate and undergraduate students during their day-to-day operations of the MRI scanner
- Contribute to the definition, application and maintenance of standard operating procedures
- Organize seminars to inform researchers about new developments in and local implementation of imaging methods and analytical techniques
- Attend scientific meetings to disseminate results of scientific research
- Serve as principal investigator by soliciting external funding opportunities (such as NIH S10 and NSF MRI mechanisms) that will enrich the breadth and depth of imaging research at FSU
- Serve as a co-investigator on external and internal research grants with other FSU researchers

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**Qualifications**

- Academic master's degree or highest-level terminal degree from an accredited institution in MR physics, biomedical engineering, electrical engineering, or similar or equivalent qualifications based on professional experience and otherwise qualified to perform assigned duties
- Expert understanding of MR physics, image acquisition, signal processing, imaging processing and image reconstruction in relation to human 3T MRI
- Ability to design experiments, optimize MRI protocols, analyze data and interpret results
MR pulse sequence programming
Knowledge of MRI methods such as functional MRI, DTI, T1/T2 relaxation, MRS, ASL and MR angiography
Excellent communication skills for interacting with a variety of MRI user

Preferred Qualifications

- PhD in MR physics, biomedical engineering, electrical engineering, or similar
- Experience with Siemens MRI scanners, including Siemens IDEA and ICE certification (or ability to obtain)
- MRI certification by the American Board of Medical Physicists
- Research background in neuroimaging analysis including use of FSL, SPM, Freesurfer, AFNI, MATLAB and/or Python-based toolboxes

Other Information

The Department of Psychology at Florida State University is the proud home to world-class scholars whose research consistently attracts national and international recognition. By producing cutting edge research in psychological science and providing undergraduate and graduate students with rigorous academic programs that build critical thinking and enhance understanding of complex behavior, the Department of Psychology serves the University and scientific community by promoting a vibrant intellectual community.

Contact Info

Dr. Derek Nee
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University Information

One of the nation’s elite research universities, Florida State University preserves, expands, and disseminates knowledge in the sciences, technology, arts, humanities, and professions, while embracing a philosophy of learning strongly rooted in the traditions of the liberal arts and critical thinking. Founded in 1851, Florida State University is the oldest continuous site of higher education in Florida. FSU is a community steeped in tradition that fosters research, encourages creativity, and embraces diversity. At FSU, there’s the excitement of being part of a vibrant academic and professional community, surrounded by people whose ideas are shaping tomorrow’s news!

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Use our [interactive tool](https://hr.fsu.edu) to calculate Total Compensation options based on potential salary, benefits and retirement contributions, earned leave, and other employment-related perks.

**How To Apply**

If qualified and interested in a specific Faculty job opening as advertised, apply to Florida State University at https://hr.fsu.edu/facultyjobs. If you are a current FSU employee, apply via myFSU > Self Service. Applicants are required to complete the online application with all applicable information. Applications must include education details even if attaching a Vita.

Applicants should submit a cover letter, research statement, and names and contact information of at least 3 references with the online application.

Applications will be reviewed beginning July 14, 2023. The deadline for applications is December 8, 2023.

**Considerations**

This is a Faculty position.

This position requires successful completion of a criminal history background check, to include fingerprinting.

**Equal Employment Opportunity**

An Equal Opportunity/Access/Affirmative Action/Pro Disabled & Veteran Employer.

FSU's Equal Opportunity Statement can be accessed at: [https://hr.fsu.edu/sites/g/files/upcbnu2186/files/PDF/Publications/diversity/EEO_Statement.pdf](https://hr.fsu.edu/sites/g/files/upcbnu2186/files/PDF/Publications/diversity/EEO_Statement.pdf).