

Preclinical and Translational Imaging Center MRI Technician

Interested applicants can access this recruitment on our Career Opportunities website at https://staffing2.hr.uci.edu/CSS_External/CSSPage_Welcome.asp

Enter Req #: **2019-1531**

Job Description for **PTIC MRI Tech.**

Job Essential Function 1

Percent of Time: 50%

Responsible for all technical aspects of the MRI imaging facility. Responsibilities include daily quality control, system checks, maintenance, and quantitative evaluation and tracking of performance of all MRI systems associated with the Preclinical and Translational Imaging Center (PTIC).

Evaluation of all associated equipment to assure the quality of collected MRI scans and behavioral data at PTIC.

Backups of all software and protocols for the MRI unit.

Works with company service engineers on all maintenance, upgrades, and associated changes to the imaging equipment and facility.

Works with PTIC researchers and customers on the installation of their protocols on MRI equipment and support for data transfers and associated computer hardware at PTIC.

Provides support to regulatory bodies during compliance visits and develops responses as needed.

Works with scientists, staff and associated representatives for processing and analysis of MRI data sets.

Develops new analysis protocols and routines as directed.

May be required to assist in 3T clinical MRI as directed

Job Essential Function 2

Percent of Time: 25%

Development or modification of protocols to optimize image quality. Implement custom pulse sequences for improved image acquisition in consultation with researchers and customers. Installation and configuration of new MRI related equipment.

Job Essential Function 3

Percent of Time: 15%

Consultation with customers and researchers on image analysis procedures. Consultation with PTIC customers on imaging protocols and analysis methodologies.

Job Essential Function 4

Percent of Time: 10%

Development and maintenance of standard operating procedures for the MRI unit.

SKILLS, KNOWLEDGE AND ABILITIES:

Required:

A minimum of 3 years of Imaging experience with functional Magnetic Resonance Imaging (fMRI), structural MRI, and diffusion MRI data acquisition for clinical or preclinical research.

Member in good standing and current ARRT certification.

Bachelor's degree with a minimum of 3 years of previous research experience in an animal or human research setting in the field of neuroscience, biology, or psychology.

Demonstrated experience with operation of and pulse sequence programming on a Bruker platform.

Demonstrated experience with MRI image analysis, quality control, and quantitative evaluation of scanner performance.

Strong analytic, inductive and deductive reasoning skills.

Good communication skills oral and written ability to calibrate communication to the appropriate level of the users technical understanding.

Good computing skills and familiarity with networking, PC-based database and spreadsheet programs, word processing and image viewing software.

Experience in functional, structural, and diffusion MRI image processing

Desired:

Demonstrated experience with C/C++, MATLAB, and Python programming languages.

Advanced technical computer skills for maintenance of Linux, Windows, and OS X computers

General understanding and acceptance of University procedures and goals.

Below are general guidelines on the position's physical, mental, and environmental working conditions.

In accordance with applicable state and federal law, UCI provides reasonable accommodations for applicants with disabilities upon request. For more information, please contact Human Resources at (949) 824-5210.

Bend: Occasionally

Squat: Occasionally

Crawl: Not Applicable

Climb: Not Applicable

Kneel: Not Applicable

Handle Objects: Frequently

Push/Pull: Occasionally

Reach Above Shoulder Level: Frequently

Sit: Frequently

Stand: Frequently

Walk: Frequently

Use Fine Finger Movements: Frequently

Carry/Lift Loads up to 25 Pounds: Occasionally

Carry/Lift loads between 25-50 lbs: Not Applicable

Carry/Lift Loads over 50 Pounds: Not Applicable
Read/Comprehend: Frequently
Write: Frequently
Perform Calculations: Occasionally
Communicate Orally: Frequently
Reason and Analyze: Frequently
Chemical/Biological Agent: Not Applicable
Construction Activities: Not Applicable
Contact with Water/Liquids: Not Applicable
Drive Motorized Equipment: Not Applicable
Confined Spaces: Occasionally
Elevated Work Location: Not Applicable
Radioactive Materials: Not Applicable
Temperature Variations: Not Applicable
Gas System: Not Applicable