

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO



BERKELEY • DAVIS • IRVINE • LOS ANGELES • RIVERSIDE • SAN DIEGO • SAN FRANCISCO SANTA BARBARA • SANTA CRUZ

An Engineering/ Lab Manager position is available in the Department of Radiology and Biomedical Imaging at UCSF, to manage the Pre-Clinical MR Imaging and Spectroscopy Core Lab, under the direction of Drs. Renuka Sriram and John Kurhanewicz. The Core MR Laboratory on the Mission Bay Campus of UCSF occupies 1660 sq. ft. and houses two high field (500 and 600 MHz) Varian NMR spectrometers, and a low field (3T) animal imaging system and 1.5T bench top NMR (Pulsar™, Oxford Instruments) uniquely integrated with two HyperSense™ (Oxford Instruments) DNP polarizers enabling cell and tissue culture bioreactor and animal studies. The high field magnets have complimentary features, including high-resolution magic angle spinning spectroscopy and micro-imaging capabilities.

The applicant will assist with the with everyday operation of state-of-the-art MR and hyperpolarized systems. There are currently 2 imaging systems – 14T micro-imaging Varian system, cryogen-free 3T Bruker as well as 2 spectrometers - 500 MHz high resolution spectrometer equipped with HR-MAS capabilities and a 1.4T benchtop permanent magnet. Furthermore, we also have 2 polarizers that are used for dissolution dynamic polarization (DNP) techniques. Specifically, this will entail, filling cryogenics (helium and nitrogen) and monitoring system status with regards to the cold head compressor and general maintenance/overseeing to ensure compliance with good lab practices as well as animal and EH&S policies and regular calibrations to ensure proper functioning of the systems and coils. Additional routine tasks will include: (i) Supporting collaborators and scientist in designing and performing preclinical MR projects and studies, (ii) training new core users on the magnets and polarizers; (iii) Assisting in preparation of specimens and phantoms for MRI investigations and (iv) Helping with image analysis. There are ample opportunities for being involved and trained in manuscript preparation and publishing as well as grantsmanship. The job will also involve interacting with industry for collaborative projects, such as drug testing, developing biomarkers of disease, RF coil testing. In addition, ordering supplies for every day to animal scanner operations, and suggesting methods for increasing efficiencies and reducing costs. The incumbent will work in close collaboration with staff of the facility and report to the Director of the Pre-Clinical Magnetic Resonance (MR) Imaging and Spectroscopy Core.

The ideal candidate should have a strong background in MR physics and hardware. Familiarity with dissolution dynamic nuclear polarization ¹³C imaging is an added bonus, but not required.

If interested, please contact Dr. Renuka Sriram (Renuka.Sriram@ucsf.edu) and/or Dr. John Kurhanewicz (John.Kurhanewicz@ucsf.edu).

UCSF is an Affirmative Action/ Equal Opportunity Employer. All qualified applicants are encouraged to apply, including minorities and women. UCSF seeks candidates whose experience, teaching, research, or community service has prepared them to contribute to our commitment to diversity and excellence.