The Pre-Clinical Imaging Scientist will take a lead role in implementing and managing complex pre-clinical imaging techniques offered by the Center for Biometric Analysis (CBA), with particular focus on MRI and MicroCT. Under direction of the Associate Director of Pre-Clinical Imaging, this PhD level scientist will be responsible for method development, study execution, data analysis and interpretation, and training of The Jackson Laboratory (JAX) faculty and staff in complex pre-clinical imaging techniques.

Key Responsibilities:

- Lead all aspects of the acquisition, development and execution of complex pre-clinical imaging protocols for CBA clients [Faculty, research staff and JAX Mice, Clinical & Research Services (JMCRS) representatives], with particular focus on Magnetic Resonance Imaging (MRI) and Micro-Computed Tomography (MicroCT). Oversee maintenance and troubleshooting of pre-clinical imaging platforms within the CBA portfolio.
- Deliver image processing and post-processing quality control, critical analysis, and biological interpretation. Ensure the quality, integrity and security of imaging data delivered to CBA clients, to include management of data storage and archiving, hot desk workstations, and high specification workstations for data processing. Analyze, collate and prepare data package summaries using MATLAB, Paravision, Topspin, Perkin-Elmer Quantum GX, Bruker MicroCT CTAn, Nrecon, Amira, DTIstudio, MIPAV, ImageJ, Python, Perl, Word, Excel, Powerpoint and R as appropriate.
- Assist with manuscript preparation, grant submissions, and progress reports.
- Provide training to faculty, staff, post docs, and students in complex pre-clinical imaging techniques including in vivo and ex vivo approaches and their respective data processing, analysis and interpretation.
- Maintain and establish SOPs, competency forms, and training material including safety training materials; maintain currency in research technologies and paradigms by literature searches and ensuring instrumentation and techniques are up to date, state of the art and forward thinking by attending seminars, workshops and courses and conferences; monitor metrics, contribute to strategic planning, budget development and billing support, and IACUC compliance in collaboration with the CBA project manager.

Requirements:

- PhD in Biomedical Engineering, Physics, Chemistry, or a related scientific discipline
- 5+ years demonstrated expertise (e.g. publication record) using Bruker, Agilent or other major MRI platform as a pre-clinical, scientific investigatory tool.
Extensive experience in image processing and post processing data skills. Experience and proficiency with the following software: MATLAB, Paravision, Topspin, Bruker Skyscan suite, Perkin-Elmer Quantum GX, Amira, DTIstudio, MIPAV, ImageJ, Python, Perl, Word, Excel, Powerpoint and R preferred.

Extensive experience in pre-clinical MicroCT image development, acquisition and analysis is preferred.

Highly-motivated, passionate, flexible scientist with the ability to perform successfully in a fast-paced team environment.

Ability to handle multiple tasks/projects and develop and recommend solutions to complex problems often under time constraints.

Must possess strong analytical, writing and successful program/project management skills with the ability to manage multiple projects simultaneously and to work well in a dynamic fast-paced environment.

Exceptional Mouse handling skills are preferred.

To officially apply, please go to https://careers-jax.icims.com/jobs/26767/pre-clinical-imaging-scientist/job and complete our online application.

About us:
The Jackson Laboratory (JAX, www.jax.org) is a nonprofit biomedical research institute with over 2,000 employees whose mission is to discover precise genomic solutions for human disease and empower the global biomedical community in the shared quest to improve human health. A National Cancer Institute-designated Cancer Center, JAX has a mammalian genetics headquarters in Bar Harbor, Maine, a facility in Sacramento, California, and a genomic medicine facility, The Jackson Laboratory for Genomic Medicine (JAX-GM), in Farmington, Connecticut.

The Jackson Laboratory's 43-acre scenic Bar Harbor campus is nestled between the Gulf of Maine and the mountains of Acadia National Park. Some of the best hiking and biking in the world (over 50 square miles of mountains, lakes, views, and dramatic coastline) is accessible from our campus. We are one mile from downtown Bar Harbor, which offers a vibrant downtown district with a plethora of restaurants, shops, museums, and galleries.

JAX employees work in a collaborative, value-driven, and team-based environment where the focus is on advancing science and improving patients’ lives. Researchers apply genetics to increase the understanding of human disease and advance treatments and cures for cancer, neurological and immune disorders, diabetes, aging, and heart disease. JAX was voted among the top 15 “Best Places to Work in Academia” in the United States in a poll conducted by The Scientist magazine!

Our Values:
INTEGRITY - Courage and commitment to do what is right
PEOPLE - Inspiring our people to enhance the health of all
What do we have to offer?
JAX offers a dynamic and supportive work environment, competitive salaries, and a comprehensive benefits package, including a medical plan, outstanding retirement plan, generous paid time off, and tuition reimbursement including an MBA program. Our campus offers a fitness center with an award-winning wellness program, an onsite full service cafeteria, and a fully operational primary care facility available to employees and their families.

Most importantly, every position contributes to JAX’s mission of discovering precise genomic solutions for human disease and empowering the global biomedical community in our shared quest to improve human health.

The Jackson Laboratory provides equal employment opportunities to all employees and applicants for employment in all job classifications without regard to race, color, religion, age, mental disability, physical disability, medical condition, gender, sexual orientation, genetic information, ancestry, marital status, national origin, veteran status, and other classifications protected by applicable state and local non-discrimination laws.

Learn more about career opportunities at JAX: http://www.jax.org/careers.