Staff position (Assistant/Associate/Full Specialist or Technician) in metabolic neuroimaging research

Date: June 1st, 2022; open until filled

Location: Mission Bay Campus, University of California San Francisco

Description: A permanent staff position (Assistant/Associate/Full Specialist or Technician) is available for highly motivated candidates to join the Chaumeil Lab in the Quantitative Bioscience Institute (QBI) at UCSF (http://chaumeillab.ucsf.edu) and contribute to new and ongoing projects. Our lab focuses on developing mechanism-driven MR imaging/spectroscopy approaches for improved detection of neurological disorders and monitoring of therapeutic response. We use preclinical models of Multiple Sclerosis, Alzheimer’s disease and CNS lymphoma (to date). We develop and biologically validate new hyperpolarized probes, as well as optimized imaging strategies for diagnosis and monitoring of treatment.

The candidate will be expected to contribute to developing and carrying out a research program investigating MRI/MRS techniques to characterize brain structure, in vivo metabolism (e.g. hyperpolarized $^{13}$C and deuterium imaging) and ex vivo metabolism (high resolution NMR), in preclinical models, in normal and pathological conditions. The employee will engage in diverse tasks including polarization of $^{13}$C samples and research imaging studies on the 3Tesla and 14Tesla systems on mouse models of several neurological disorders. The job description includes operation of large equipment (polarizers, MRI), image processing and analyses, MR data acquisitions, data transfer and reporting, and overall data analyses and study summaries. To a lesser extent the employee could be involved in biochemical characterization of cell/tissue samples. An exceptional candidate will lead their own independent project, develop new ideas, be familiar with the literature, and participate in procurement of funds, where appropriate.

Required Qualifications:
- Excellent organizational and interpersonal communication skills (verbal and written)
- Willingness and ability to learn new methods and skills for changing research priorities.
- Ability to work independently and as a member of a research team.
- Ability to prioritize tasks, coordinate work tasks with others, and meet multiple deadlines.
- Must have (or be in process of obtaining) a master’s degree (or equivalent degree) or at least five to ten years of research experience to be appointed at the Assistant or Associate ranks.
- Must have (or be in process of obtaining) a terminal degree (or equivalent degree) or at least ten or more years of research experience to be appointed at the Full rank.
- Knowledgeable within 1 or more of the following subjects: MRI/S, high field imaging, X-nuclei, metabolism, hyperpolarized $^{13}$C, DNP, MR sequence programming, data processing, neurological disorders, metabolomics.

Preferred Qualifications:
- Experience with operating large equipment (polarizers, MRI etc…)
- Experience with preclinical models of disease (animal handling procedures)
- Experience with quantitative biochemistry (western blots, activity assays, PCR, immunohistochemistry, tissue extraction, etc.)

We are seeking at least a 2-year commitment. Depending on performance and workload, opportunities for independent research, mentorship of other trainees, and scientific writing will be available. We anticipate providing significant training in those disciplines with which the candidate is less familiar. Interested individuals are encouraged to email a curriculum vitae and a cover letter to Myriam M. Chaumeil, PhD, Associate Professor in Residence: myriam.chaumeil@ucsf.edu.

The University of California San Francisco is an Equal Opportunity/Affirmative Action Employer.