Scientist, Preclinical Imaging (MRI)

Who we are:

Calico is a research and development company whose mission is to harness advanced technologies to increase our understanding of the biology that controls lifespan, and to devise interventions that enable people to lead longer and healthier lives. Executing on this mission will require an unprecedented level of interdisciplinary effort and a long-term focus for which funding is already in place.

Position description:

We are looking for an outstanding MRI scientist to join our preclinical imaging team. The role will focus on developing imaging sequences and image analysis strategies for the characterization of mammalian aging and age-related diseases, primarily in in vivo models. Our facility is equipped with state-of-the-art equipment. A key responsibility of the role is the implementation and validation of imaging strategies using models as well as training of other group members in their use. The successful candidate will be developing imaging strategies in partnership with scientists working on the biology of aging in a dynamic and collaborative environment. We are focused on technology innovation and automation to generate robust in vivo biomarkers advancing our understanding of aging. Calico provides a stimulating and collaborative working environment focused on discovery research but with a commitment to translating scientific advances to realize their therapeutic potential.

Position requirements:

- Ph.D. in MRI Physics or a related discipline with extensive MRI experience as well as >2 years of post-doctoral training in preclinical imaging
- Experience in pulse sequence design, preferably for Bruker systems, is highly desirable
- Candidates should have strong programming skills (Matlab, C++/C, Python)
- Familiarity with Linux systems and related development environments
- Experience with advanced image analysis techniques including neurological data analysis (SPM, FSL) image registration techniques and machine learning approaches
- Experience with MR spectroscopy and modelling of spectroscopic data is advantageous
• Knowledge of experimental design principles and statistical analysis techniques (R, SPSS, Jump)