Scientist, Single Cell Genomics

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. We will use that knowledge 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:

Calico is seeking an experienced NGS scientist with a particular passion for single cell and spatial transcriptomics technology. As a member of our Genomics group your results will directly contribute to Calico’s long-term mission of positively impacting human healthspan and lifespan.

In this role you will act as a technical domain expert for single cell and spatial transcriptomics technology at Calico, ensuring that we have access to technology that is state-of-the-art or beyond.

Laboratory responsibilities:

- Improve Calico’s single cell and spatial transcriptomics methods, including experimental design, sample preparation, library construction, data generation
- Innovate and create novel approaches for droplet and plate-based assays
- Provide single cell technical guidance to your colleagues
- Teach/mentor junior colleagues

Analysis responsibilities:

- Employ existing data NGS bioinformatic analysis tools, develop new bioinformatic analysis tools as needed to analyze your data
- Provide NGS bioinformatic analysis expertise to colleagues
- Present results at internal lab meetings and company-wide meetings
- Publish results and present at external scientific conferences

Position requirements:

- PhD plus postdoc in molecular biology, genetics, genome sciences, bioengineering, bioinformatics, or related field
- At least 4 years prior hands-on laboratory NGS experience with demonstrated proficiency with extant NGS library methods (RNA-seq, ATAC-seq, IsoSeq or other)
• At least 3 years NGS computational coding experience (Python, R, extant NGS bioinformatics analysis tools)
• Prior management/mentoring experience

Nice to have:

• Experience with computational and statistical approaches for high-dimensional data analysis
• Experience with laboratory robotics, large-scale experiments and process development
• Familiarity with droplet-based and plate-based single cell assays and platforms (sci-Seq, InDrop, Drop-Seq, SMART-seq, 10x Genomics, Rhapsody, Fluidigm, Dolomite Bio, etc.)
• Experience with cell culture techniques and tissue processing