

The Dries lab at Boston Medical Center and the Boston University Medical Campus is seeking a highly skilled and motivated Research Technician with expertise in tissue histology and sample processing to join our dynamic team. In this role, you will have the exciting opportunity to operate the Vizgen MERSCOPE spatial transcriptomics platform and provide technical support to individuals both within and outside the lab. If you are dedicated, detail-oriented, and eager to contribute to groundbreaking discoveries, we encourage you to apply!

Position: Research Technician

Expertise: Histology and Sample Processing

Key Responsibilities:

- Manage operation of the Vizgen MERSCOPE, including but not limited to ordering reagents, performing MERFISH assays, and maintaining the MERSCOPE for the Dries lab and BU/BMC community.
- Conduct sample processing, embedding, sectioning, staining, and mounting, ensuring accuracy and efficiency.
- Collaborate with scientists at BU/BMC to troubleshoot technical issues related to the MERFISH assays.
- Provide technical expertise and guidance to lab members, including training on proper sample handling, processing techniques, and instrument operation.
- Maintain and calibrate laboratory equipment, and be the key point of contact for MERSCOPE related needs.
- Assist in data analysis and interpretation, including the visualization and quantification of spatial imaging data.
- Maintain accurate and organized records of experiments, procedures, and results.
- Keep up-to-date with advancements in spatial biology assays and contribute to the implementation of new methodologies.

Qualifications:

- Bachelor's or Master's degree in a relevant field (e.g., Biology, Biochemistry, Bioengineering, or a related discipline).
- Demonstrated expertise in histology and/or sample processing techniques, including embedding, sectioning, staining, and mounting.
- Strong analytical skills and experience with data analysis software and image processing tools.
- Excellent organizational skills and attention to detail, with the ability to manage multiple tasks and prioritize effectively.
- Effective communication and interpersonal skills, with the ability to collaborate and provide technical guidance to team members.
- Knowledge of laboratory safety protocols and the ability to adhere to strict quality control standards.
- Familiarity with molecular biology techniques and experience with nucleic acid extraction, PCR, IHC/IF, NGS, and/or single cell RNA sequencing is a plus.
- Previous expertise in operating and maintaining spatial imaging platforms is a plus.
- Ability to adapt to changing research needs and work both independently and as part of a team.

How to Apply:

If you are passionate about spatial biology, sample processing, and contributing to groundbreaking research, please submit your application, including a cover letter, curriculum vitae (CV), and contact information for two references, to rdries@bu.edu. Please use the subject line "Research Technician Application - Tissue Histology and Sample Processing."

Application Deadline:

Applications will be reviewed on a rolling basis. Qualified candidates will be contacted for interviews and a start date can be agreed on.