Yale University

MCD Biology

Light Sheet Microscopy position – Meyer lab at Yale

The Meyer lab (**meyerlab.yale.edu**) is part of the Department of Molecular, Cellular and Developmental Biology, and the Systems Biology Institute at Yale University. We are seeking a motivated researcher (at any level, from Research Associate to Postdoc) to join our team and **build a single-objective oblique plane light sheet microscope for single-molecule imaging**. This project, supervised in collaboration with local light sheet experts, offers a unique opportunity to contribute to cutting-edge imaging technology and, if interested, explore its biological applications to understand principles of gene regulation.

Our lab seeks to understand the molecular logic of cellular decision making in the context of embryonic development. Our research focuses on mechanisms of gene regulation with a particular interest in the role of chromatin mechanics/biophysics in sensing, processing, and memorizing information. To this end, we synthetically control signaling nodes (optogenetics, synthetic biology tools) and combine this approach with imaging-based readouts to record information flow at molecular resolution (single molecule imaging). If interested, the open position would provide an opportunity to explore the application of light sheet imaging for addressing biological questions in these areas.

The position is available immediately (Nov. 2024), but the start date is flexible. Applicants should have prior experience in microscopy/optics, physics, or related fields. To apply, please submit a cover letter outlining your motivation and include contact information for 2-3 references to kirstin.meyer@yale.edu.

For more information, please see https://meyerlab.yale.edu.