Scientist—Workflow Development Group, Research and Development

Location: Menlo Park, CA

Job description

We are looking to hire a Scientist candidate to join the Workflow Development Group within the dynamic and team-oriented R&D Department in Menlo Park, CA. This individual will develop protocols and methodologies to implement key automated workflows for use with Akoya platforms. Core responsibilities for this individual include designing and executing experiments, analyzing data and presenting conclusions to the broader group, and developing and validating quantitative image analysis routines. This role involves significant benchwork and experiment execution. A variety of techniques and methodologies will be used, including fluorescence microscopy, DNA-hybridization assays, and others. A successful candidate for this position will have strong computational skills, as well as experience with microfluidics, immunofluorescence and/or immunohistochemistry, or DNA technology development. We are looking for motivated and creative individuals who have at least two years of experience in a relevant field. It is critical that this individual is flexible and team oriented. Finally, this candidate would ideally have experience in a multi-disciplinary setting with a proven track record of collaboration with other team members to deliver on a complex technical need.

Responsibilities

- Perform high throughput immunohistochemistry (IHC) and immunofluorescence (IF) staining and imaging of tissue sections.
- Develop workflow procedures for Akoya related platforms.
- Design analytical experiments to measure and quantify biological material and fluid transfer during workflow steps.
- Perform fluorescence microscopy analysis and optimize settings for antibody stained tissue samples.
- Develop and validate image analysis routines to assess quality of staining and imaging
- Troubleshoot experiment designs for optimization of key parameters.
- Record experimental results of research and development projects in laboratory notebooks and present data during weekly tech meetings.
- Review scientific literature and summarize relevant information.

Qualifications

- Ph.D. in biomedical engineering, biological sciences, or related field
- 2-5 years of experience in biotechnology sector
- Familiarity with automated instruments with fluidics components is preferred
- Experience with fluorescence microscopy, immunohistochemistry, and immunofluorescence.
- Experience with scripting and developing quantitative image assessments is preferred.
- Ability to work independently and as part of a team towards team and corporate goals
- Excellent organizational, analytical, and systematic troubleshooting skills
- Familiarity with the following fields: microfluidics, cancer immunotherapy, microscopy, immunology, and oncology.

- Familiarity with the following techniques/methodologies: antibody conjugations, DNA-based hybridization assays, antibody-based assays (IHC, IF, Western blot, ELISA), RNA-based assays.
- Demonstrated ability to work on multiple projects with evolving priorities and deadlines.
- Imaging and image analysis experience using inForm® preferred, as well as programming experience in either R or MATLAB®