Title of Position: Sr. Scientist, Head of LDT Development

Organization: MetaStat, Inc.
Location: 27 Drydock Avenue, Boston, MA
Job Category: Research and Development
Schedule: Full-time
Job Level: Individual contributor
Travel: Limited

Company Description:
MetaStat is a biotechnology company focused on discovering and developing personalized therapeutic and diagnostic treatment solutions for cancer patients. Our Mena isoform "driver-based" diagnostic biomarkers also serve as novel therapeutic targets for anti-metastatic drugs. MetaStat is developing therapeutic product candidates and paired companion diagnostics based on a novel approach that makes the Mena isoform protein a druggable target. Our core expertise includes an understanding of the mechanisms and pathways that drive tumor cell invasion and metastasis, as well as drug resistance to certain targeted therapies and cytotoxic chemotherapies. MetaStat is located in Boston's Seaport District.

Job Description Summary:
MetaStat, a biotechnology company discovering and developing personalized therapeutic and diagnostic treatment solutions for cancer patients, is seeking an outstanding **Senior Scientist**, **Head of Laboratory Developed Test (LDT) Development** to join its growing team. The successful applicant will be responsible for leading the prognostic and companion diagnostic research and development team and managing the CLIA-certified commercial diagnostics laboratory. Using tissue-based techniques such as immunohistochemistry (IHC) and quantitative immunofluorescence (QIF), this team is responsible for developing driver-based biomarker assays for predicting drug response and identifying patients for inclusion in clinical studies of novel therapeutics. CLIA-certified commercial diagnostic laboratory group is responsible for commercializing the Company's Laboratory Developed Test (LDT).

The full-time role will focus on managing operations of the CLIA-certified commercial diagnostic laboratory and leading the research and development team effort toward

developing new IHC and QIF protein-based and RT-PCR genomic diagnostic tests including methods development, image processing, algorithm development and design using commercially available software such as Perkin Elmer's' Inform, Halo, Matlab and Visiopharm. The individual must be creative and have experience in successful development of commercial LDTs.

Responsibilities will include the following:
- Direct LDT operations of the CLIA-certified commercial laboratory including staining, image processing, data storage and analysis of formalin-fixed paraffin-embedded (FFPE) tissue samples;
- Project and clinical management of analytical validation, clinical validation and clinical utility studies in support of new commercial LDTs;
- Work closely with other members of the diagnostics team, including as CMO and Laboratory Pathologists, to develop and optimize immunohistochemistry (IHC), quantitative immunofluorescence (QIF) and RT-PCR assays;
- Develop and optimize digital pathology image analysis processes including the design, development and validation of new algorithms to solve complex digital pathology imaging problems;
- Lead the statistical analysis of biomarker expression and clinical outcomes data including distant metastasis, overall survival and drug response;
- Direct staining, image processing, data storage and image analysis of formalin-fixed paraffin-embedded (FFPE) tissue samples for clinical studies and as a commercial service in a CLIA-based environment;
- Keep up to date with the latest advances in the field of image analysis in the area of digital pathology;
- Contribute to the development of intellectual property including patent applications.

Qualifications:
- MS/PhD (imaging, bioinformatics, modeling, statistics or any other project involving commercial LDT development);
- Ideally 3-5 years post-academic experience;
- Translational development of prognostic and predictive LDTs from academic research phase to CLIA approved tests;

- Experience with algorithm development and visualization of results;
- Experience with software programming and machine learning techniques using Perkin Elmer's' Inform, Halo, Matlab and Visiopharm;
- Experience with digital pathology and image analysis methods, microscope operations and image analysis;
- Proven leadership skills;
- Ability to manage others;
- Can do attitude, ideally start-up environment experience;
- Achievement orientated, tolerance of ambiguity, willingness to wear multiple hats;
- Highly self-motivated and goal oriented;

Salary range for this position:
Market competitive.

Contact:
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