



**Title of Position:** Digital Image Analysis Algorithm Specialist

**Organization:** MetaStat, Inc.

**Location:** 27 Drydock Avenue, Boston, MA

**Job Category:** Research and Development

**Schedule:** Full-time

**Job Level:** Individual contributor

**Travel:** No

**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 **Digital Image Analysis Algorithm Specialist** to join its growing team. The successful applicant will be responsible for working within the digital pathology image analysis research and development function on the companion diagnostics team. 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.

The full-time role will focus image analysis development activity including scanning of images, image processing and algorithm design and development using commercially available software such as Perkin Elmer’s’ Inform, Halo, Matlab and Visiopharm. The



individual must be creative and have experience in algorithm development, image processing and rare event analysis.

**Responsibilities will include the following:**

- Work closely with the scientists on the companion diagnostics team, as well as pathologists, to develop and optimize immunohistochemistry (IHC) and quantitative immunofluorescence (QIF) assays, and assist on routine performance of such assays once validated;
- Develop and optimize digital pathology image analysis processes including the design, development and validation of new algorithms to solve complex digital pathology imaging problems;
- Aid in statistical analysis of biomarker expression and clinical outcomes data including distant metastasis, overall survival and drug response;
- 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;
- Support the development of intellectual property including patent applications.

**Qualifications:**

- BS/MS (imaging, bioinformatics, modeling, statistics or any other project involving computational or algorithmic development);
- Ideally 3-5 years post-academic experience;
- 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;
- Can do attitude, ideally start-up environment experience;
- Achievement orientated, tolerance of ambiguity, willingness to wear multiple hats;
- Highly self-motivated and goal oriented;
- Self-starter, attention to detail.



**Salary range for this position:**

Market competitive.

**Contact:**

Douglas Hamilton

President & CEO

MetaStat, Inc.

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