

Job Description Title: Lead Scientist

Department Biology Research & Development

**Reporting** CSO / CEO

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# On QCDx

Precision cancer medicine depends on early cancer diagnosis, monitoring of treatment efficacy and surveillance for disease recurrence. QCDx LLC is an early-stage company who developed the RareScope™ instrument for precise detection and characterization of rare cells in bodily fluids. In cancer applications it detects different phenotypes of live circulating tumor cells (CTCs) and isolates CTCs for single-cell, molecular analysis from an immobilized cell suspension. It is also designed to allow perfusion with media containing bioactive substances (including drugs) with longitudinal visualization, to assess effects on target cells. The fully automated CTC liquid biopsy will deliver high throughput and assist the clinical oncologist in offering precision treatment that will improve both clinical outcomes and the patient's quality of life.

# JOB SUMMARY

The Lead Scientist is involved in the design, development, testing, and support of QCDx cell and molecular assays for RareScope™ microscopy. Will provide leadership, supervise and mentor laboratory scientists and technologists. Participates in specific projects and provides technical guidance for a variety of cross functional activities particularly with the Software Engineering group. Helps initiate, direct, and coordinate activities necessary to complete a major project or several immediate projects.

### **ESSENTIAL JOB FUNCTIONS AND RESPONSIBILITIES**

- Participates in planning, execution and follow-up of Company's yearly timelines for product development.
- Implements product development plans, in close collaboration with Software Engineering.
- Coordinates clinical sample collection and processing in direct contact with Principal Investigators and their clinical teams of Clinical Study Sites.
- Prepares lab work instructions, SOPs, oral and written reports.
- Works interactively with peer group in Biology as well as managers, Directors/VP's of Engineering, Quality & Regulatory, Operations, Human Resources, and Sales & Marketing.
- May be responsible for communications (as appropriate) to senior management.

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- Must be able to communicate technical and non-technical information effectively to all levels of internal and external stakeholders.
- Demonstrates leadership within the Biology Team and addresses day to day situations with direct involvement and engagement with all stakeholders and management as needed.
- Coordinates with instrumentation engineering and manufacturing to analyze and resolve relevant issues.
- "Out of the box thinker", contributes to strategies for optimizing all phases of the product development.

## **EDUCATION AND EXPERIENCE**

#### **EDUCATION:**

Advanced degree (PhD, or equivalent) in a scientific discipline (biology, cell biology, molecular biology, biomedical engineering, pharmacy or related), medical technology, or the equivalent Should have 2+ years of relevant academic or industrial experience, including supervision of laboratory personnel.

M.Sc. degree may qualify with 2-3 years additional experience

### **EXPERIENCE:**

<u>CELL AND MOLECULAR BIOLOGY:</u> Cell-Based Functional and Biochemical Assays, Cell viability assays, mammalian cell culture and isolation (commercial cell lines, iPSC, primary donor tissues and commercial cell lines). Western Blotting, Immunohistochemistry and Immunofluorescence. Antibody Conjugation, RT-PCR, FISH. <u>Desirable</u>: Single cell handling, microfluidics.

CANCER IMMUNOLOGY: Immune Checkpoint Blockade Antibodies, Flow Cytometry, FACS.

<u>MICROSCOPY:</u> Phase, Fluorescence. <u>Desirable</u>: Confocal, Light Sheet Microscopy

<u>LABORATORY MANAGEMENT:</u> Clinical Trial Protocol Assistance, Project Management, Lab Supply Budgeting and Ordering

RESEARCH MENTORING: Experimental Design, Hands-on Training, Presentation/Poster Preparation, Student Mentoring.

COMPUTER TECHNOLOGY AND SOFTWARE ANALYSIS: Data Analysis Software, FIJI/ImageJ, Prism-GraphPad, FlowJo. <u>Desirable</u>: SeqGeq, 10X Loupe Cell Browser <u>SCIENTIFIC AND GRANT WRITING</u>: Participate in (i) development, writing NIH grants and (ii) authoring publications of ongoing research projects.

### SUPERVISORY RESPONSIBILITIES

- Will oversee the management of scientists and technicians.
- Will be responsible for managing projects relating to new development or support of biological development.
- Will mentor junior members of the team, including interns.

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# TRAINING REQUIREMENTS

- 1. General Safety
- 2. Quality System and Design Controls Training
- 3. Sexual Harassment
- 4. Employee Management

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