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Aspect Biosystems Ltd.
1781 West 75th Avenue,
Vancouver, BC, Canada
V6P 6P2
www.aspectbiosystems.com



Career Opportunity

Position Title: Cell Biologist
Location: Vancouver, BC
Status: Full-Time

Company Description

Aspect Biosystems Ltd. is an award winning Canadian startup developing state-of-the-art 3D bioprinting technology capable of creating living human tissues on demand. Aspect aims to drive a fundamental shift in the pharmaceutical industry by enabling the development of physiologically relevant human tissue models for pre-clinical drug testing, moving away from the use of animals and de-risking customers' drug assets entering clinical trials. Aspect is a forward looking company, and envisions a future where our technology is used directly to save lives through the creation of personalized implantable tissue, and even functional organs.

We have an interdisciplinary and fast-paced team looking for qualified and enthusiastic individuals to help us grow into a flagship Canadian tech company. As an early employee there is significant opportunity for growth and leadership. If you thrive in a team atmosphere and have the drive to grow in one of the most promising startup companies, we want to hear from you.

Roles and Responsibilities


The successful candidate will be a part of Aspect's interdisciplinary R&D team, focused on developing bioprinted tissues with advanced functionalities for use in pre-clinical drug development. This laboratory-based role will focus on the development and validation of novel 3D-printed tissues, specifically tissues that build from Aspect's existing 3DBioRing™ tissue platform. The successful candidate will require extensive experience in primary human cell culture and a deep understanding of contractile cell biology. Specific training, particularly on the 3D bioprinting system, will be provided, but the individual will be expected to perform most tasks with a minimum of supervision. Core tasks will include:

- Optimizing cell culture protocols for a variety of primary human cell types.
- Working with the R&D team to strategise 3D tissue development activities and design experiments to validate 3D tissue function.
- Identifying key material and physical requirements for cell differentiation in 3D culture.

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- Optimizing, conducting and analyzing tissue contraction assays as well as other relevant 3D tissue assays.
 - Researching and identifying new tissue engineering strategies through literature review and interaction with academic and industrial experts.
 - Printing 3D tissue models and working with the engineering team to identify system requirements and improvements.
 - Contributing to scientific publications, patents, and grant applications.
 - Presenting data to external stakeholders and at scientific conferences.
 - Writing test reports on tissue function, technology evaluations, and additional materials as required.
 - Ensuring proper documentation of tissue development and validation activities.
 - Working directly with external vendors to evaluate improved materials for use in Aspect's research.
 - Working closely with internal researchers and external partners to iteratively improve 3D tissue performance based on their data and feedback.
 - Training others on new technologies and processes.

Requirements

- PhD in cell biology or similar, with a focus on contractile tissue biology (similar qualifications in related fields and/or MS degree with experience will be considered).
- Experience culturing primary human cells, culture of smooth muscle and/or cardiomyocyte cells would be an advantage.
- Experience developing and validating cell-based assays, performing and analysing tissue contraction assays would be an advantage.
- Experience working with 3D cell cultures and hydrogel materials will be useful.
- Competency preparing samples for, and using fluorescent and confocal microscopy
- Competency with standard computer software and microscope image analysis
- Experience in a goal-oriented research environment.
- Strong written and verbal communication skills.
- Ability to work with minimal supervision in a fast paced, self-directed environment, document detailed results, and communicate to peers.
- Attention to detail, organized, and thorough in completing tasks.
- Strong teamwork skills.



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Environment

The environment at Aspect is fast paced, results driven, collaborative, and team-oriented. We are looking for individuals who bring substantial expertise and competency in their field, and are passionate about their work and Aspect's success. We offer competitive compensation packages with excellent opportunities for personal growth.

Please send resume and cover letter to: careers@aspectbiosystems.com.

Only candidates selected for an interview will be contacted.