

careers@aspectbiosystems.com
Aspect Biosystems Ltd.
#146 2259 Lower Mall
Vancouver, BC
V6T 1Z4
www.aspectbiosystems.com



Career Opportunity

Position Title: Material Scientist

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 and will focus on developing and applying new approaches and technologies to develop high-strength 3D printable, biocompatible materials. This position will require extensive experience in the development of cross-linkable biomaterials. This successful candidate will be part of a high performance team focused on developing bioprinted tissues with advanced functionalities for implantation into patients. The successful candidate's responsibilities will include:

- Working with the R&D team to design requirements for biomaterial technologies
- Researching and identifying new biomaterial strategies through literature review and interaction with academic and industrial experts
- Developing biomaterials characterization strategies including implementing appropriate physical, thermal, morphological, and chemical test methods to assess material "printability" and mechanical performance
- Performing laboratory-based studies to develop new biocompatible materials for incorporation into Aspect's bioprinted tissues
- Performing statistical analysis to observe trends from rheology, tensile properties, Young's modulus and other material characteristics



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- Developing GMP processes for the manufacture and testing of biomaterials
 - Working directly with external vendors to evaluate improved materials for use in Aspect products
 - Working closely with internal researchers and external partners to iteratively improve biomaterial performance based on their data and feedback
 - Ensuring proper documentation of biomaterial development activities
 - Writing test reports on mechanical properties and biocompatibility, technology evaluations, and additional materials as required
 - Training others on new technologies and processes

Requirements

- PhD in polymer chemistry, biomaterials, chemical engineering, bioengineering, materials science & engineering
- Similar qualifications in related fields and/or MS degree with experience will be considered
- Experience working with chemically and photo cross-linkable polymers, hydrogels thermoplastics, and composite materials
- Excellent fundamental understanding of the structure, composition, and properties of substances, including polymer chemistry/physics and characterization techniques
- Experience and skill in material characterisation and mechanical testing, including but not limited to; tensile testing, compressive strength, Young's modulus, rheology
- Experience in a goal-oriented research environment
- Strong written and verbal communication skills
- Ability to work with minimal supervision in a fast-paced and self-directed environment, document detailed results, and communicate to peers and customers
- Attention to detail, organized, and thorough in completing tasks
- Strong teamwork skills

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.