
Position Description: Research Engineer

Company Description

Aspect Biosystems is an award winning Canadian startup developing state-of-the-art 3D bioprinting technology capable of creating living human tissue. 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

This full time role is part of the research and development team, which is responsible for developing novel systems and technology to meet the demands of application contracts and core technology direction. The candidate is responsible for:

- Designing mechanical, electrical, robotic, pneumatic, hydraulic and microfluidic components as part of a complex multidisciplinary technology suite
- Aiding the product development team in deploying technology developments
- Working with biologists, chemists, application engineers, other technical personnel and external stakeholders to develop systems that address critical technical needs
- Troubleshooting mechanical, electrical and instrumentation problems
- Liaising with manufacturers and suppliers to ensure parts are being delivered on spec and on time
- Following and enforcing development standards for mechanical designs
- Working with SolidWorks software to produce professional production drawings and CAD models
- Other related tasks as required

Requirements

- 5-7 years experience of mechanical engineering design, at least 3 of those in technical product design
- Bachelors of Mechanical Engineering or equivalent
- Proficient user of SolidWorks software



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- Significant hands-on experience building systems and technology with significant technical scope, including: Electrical, mechanical, mechatronic, hydraulic, pneumatic, microfluidic, chemical, biological, and optical elements
 - Experience designing, using, and fabricating microfluidic devices
 - Experience assembling instrumentation
 - Experience designing and working with robotic instruments

Assets

- Knowledge of a variety of manufacturing techniques and processes for plastics, silicones, aluminum, steel and electronics
- Experience working with large scale manufacturers
- Experience with industrial design
- Knowledge of modern industrial design styles and methods
- Experience designing for volume manufacturing
- Experience working with overseas manufactures
- Experience designing 3D printing systems or robotic fluid handling systems

Environment

The environment at Aspect is fast paced, results driven, collaborative and friendly. We are looking for individuals who bring substantial expertise and competency in their field, and are passionate about their work and Aspects success. We offer competitive compensation packages, and flexibility on work hours and vacation.

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

Only candidates selected for an interview will be contacted.