

Job offer

Microfluidics Development Engineer

Job title	Microfluidics Development Engineer
Type of contract	Full time

Workplace	Fluicell AB – Biotech Huset - Arvid Wallgrens Backe 20, 41346 Göteborg - Sweden
Company Overview	<p>Fluicell is an innovative Gothenburg-based technology company founded in 2012 as a spin-off from Chalmers University of Technology. The company has commercialized a patented product portfolio to process and study individual cells, primarily for use in drug development research, and has a functioning laboratory prototype of a new family of products in 2D / 3D bioprinting.</p> <p>Please, visit our Website www.fluicell.com</p>

Job description	<p>We are acutely looking for an experienced Microfluidics Development Engineer. In his/her role, the Microfluidics Development Engineer will be responsible for developing robust microfluidic designs to align with Fluicell's current and future instrumentation portfolio. The applicant will be required to collaborate with and lead cross-functional teams (mechanical, software, fluidic, chemical, biological etc.) to meet manufacturing and system level performance specifications.</p>
Responsibilities	<p>Positioned in a biotechnology field, the job requires flexibility, self-motivation and professional ethics.</p> <p>The applicant will be required to:</p> <ul style="list-style-type: none"> ✓ Lead Manufacturing transfer of innovative, robust, and low cost microfluidic designs within Fluicell's instrumentation portfolio. ✓ Model and analyze complex custom microfluidic systems for transport, sensor detection, and control system feedback. ✓ Coordinate supply and structure timelines for OEM components. ✓ Manage fluidic device development budget. ✓ Work cross functionally with consumables, hardware and systems integration teams to conduct system level fluidic troubleshooting, testing, and analysis. ✓ Perform CPM (critical parameter management) analysis to relate fluidic system specifications to hardware and product life cycle. ✓ Provide solutions to manufacturing issues of custom microfluidic system designs and yield improvement while maintaining manufacturability as we scale up to larger shipping volumes. ✓ Develop manufacturing work instructions, test methodologies and process flow procedures. ✓ Mentor, provide feedback and training to junior engineers. ✓ Collaborate with and lead cross-functional teams (mechanical, electrical, software, fluidic, chemical, etc.) to meet system level performance specs.

<p>Requirements</p>	<ul style="list-style-type: none"> ✓ Demonstrated technical leadership in managing multiple concurrent projects. ✓ Hands-on working knowledge of microfluidics, automated fluidics instrumentation, and flow design based on a wide range of Reynolds numbers. ✓ Experience with experimental design and execution, including hypothesis generation, design of experiments and root cause analysis. ✓ Proficiency in design, analysis, and tolerance using AutoCAD or similar software and modelling/simulations using COMSOL or similar software. ✓ Familiarity with fluidic designs for both single and biphasic liquid systems. ✓ Experience with single-cell analysis, with emphasis on morphology and topology. ✓ Familiar with microfluidic test methodologies and equipment. ✓ Familiar with fluidic tolerance analysis. ✓ Material expertise in plastics/injection molding and reactive injection molding, for micro-fluidic devices. ✓ Experience in biosensor development preferred. ✓ Comfortable with complexity and ambiguity with an ability to see the big picture. ✓ Ability to collect, prepare, and present relevant information to influence decision-making within the organization. ✓ Requires strong analytical, written and verbal communication skills as well as the ability to interface with all departments and manage multiple projects and deliverables. ✓ Moderate international and domestic travel required. <ul style="list-style-type: none"> ✓ Minimum 3 to 5 years of experience required. ✓ English fluency is required, another language proficiency is a benefit. ✓ Excellent writing and verbal skills. ✓ Very good interpersonal skills. ✓ Motivated to work alone and in teams of varying abilities and backgrounds. ✓ Be comfortable travelling when it is deemed necessary. ✓ Ability to plan, lead and implement projects both independently and with support from others. ✓ High Engineer and Scientific skills to understand the current and future products
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<p>CONTACT</p>	<p>Send your application in English by email to victoire@fluicell.com & gavin@fluicell.com</p>
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