

Careers at SABER BIO

Microfluidics development engineer

SABER BIO is a young biotech company, a spin off from ESPCI, based in Paris, France. We develop fully integrated single cell analysis instruments and assays for advancing the understanding of complex biology, accelerating drug discovery, and enhancing accuracy in precision medicine. Our technology combines droplet microfluidics and deep single-cell characterization to provide high content single-cell profiling at high throughput.

We are looking for enthusiastic and innovative people who share our passion to build the next generation of single-cell analysis instruments using leading edge technologies. You will work in an early-stage company with an experienced management and scientific team that has a successful track-record in developing and commercializing single-cell technologies. In addition, the scientific founding team are recognized global leaders in our core technologies and have been involved in the creation of multiple biotech companies.

The key personal characteristics that we are looking for are:

- Creative
- Talented
- Team player
- "Getting things done" mentality
- Proactive
- Ambitious

The following permanent position is open for our lab facility in Paris:
Microfluidics development engineer

Essential duties and responsibilities

- Design and develop droplet-based microfluidic chips, and integrate them into automated systems.
- Define and test integrated pneumatic and fluidic flow circuits (valves, manifolds etc).
- Develop instrument specifications, test and validate prototypes.
- Contribute to the development and implementation of our internal microdroplet assays
- Coordinate with suppliers and industrial partners for chip manufacturing
- Create and assist in the filing of intellectual property of value to the company

Preferred experience

- Track record in delivering microfluidic systems (instruments, consumables)
- Strong expertise and know-how in droplet-based microfluidics
- Excellent organizational and bench skills in the key areas of chip design, prototyping, production and testing.
- Comfortable designing and performing laboratory experiments for testing microfluidic devices.
- Proficiency with fluidic chip design using CAD packages (AutoCAD, Solidworks or equivalent)
- Experience programming for instrument control and/or data analysis (LabView, MATLAB, Python)
- Fluidics FEA simulation and modeling experience is appreciated (COMSOL, Ansys-Fluent or equivalent)
- Experience with cell biology, optical microscopy and fluorescence detection appreciated.
- Strong communication skills and the ability to work in English at a high technical level within a multi-disciplinary team; French is a plus.

Education requirements

- PhD or post-graduate degree in relevant engineering or science discipline, with a focus on microfluidics, microfabrication or biophotonics with fluidic experience.
- At least 2 years of industrial R&D experience in instrument development environment, life sciences or similar industry. 4 years relevant academic post-doc experience will also be considered.

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