

Job Post: MEMS Process Engineer

Sheba Microsystems is an early-stage, well-funded, fast-moving company with ground-breaking MEMS actuator technology. Our mission is to become a world leading provider of compact camera auto-focus and image stabilization systems based on our actuator platform. Our technology has dramatically lower power consumption, longer lifetimes, and faster response than current standards.

Sheba Microsystems is seeking driven, passionate, self-motivated and enthusiastic engineering team members to join us as we bring our technology to market. This is a chance to make your mark on the products that we will be shipping around the world. We are located in the heart of Toronto, Ontario, Canada. Candidates must be legally eligible to work in Canada. Interested candidates are encouraged to send a full resume and cover letter to careers@shebamicrosystems.com.

MEMS Process Engineer

We are looking for a dynamic engineer with outstanding technical skills, work ethic and ingenuity to join the core of our product development team and help build the future of compact camera technology. This is a permanent, full-time position Edmonton, Alberta.

Responsibilities:

- Reporting directly to the Executive Director, you will be a key member of the engineering team to develop new MEMS actuators and sensors, based on our proprietary MEMS designs.
- You will fabricate various MEMS devices in a cutting-edge clean room facility.
- You will be responsible for optimizing the various fabrication processes and make changes as required.
- You will be responsible for inspecting and testing new fabricated MEMS devices to improve efficiency, performance and product yield.
- You will develop relationships with MEMS academic and industry partners, reading the literature, surveying the technology landscape, and taking part in discussions.
- You will contribute to our product plans with ideas for new products and improvements.
- You will contribute to the business and technical plans, by helping to define all of our technical milestones.

Required Qualifications:

- You have a bachelor's or Master's in Mechanical/electrical Engineering or equivalent.
- You have knowledge of the operation principles and various structures of electrostatic Micro actuators.
- You have at least 2 years of experience in fabricating semiconductor devices using various micro-fabrication processes and tools.

- You have experience in MEMS device design and optimization.
- you have experience with finite-element simulations and modeling of MEMS devices.
- You have a proven ability to work in a multidisciplinary team and have the drive and motivation to succeed in the fast-paced environment of a technology start-up company.
- Fluent verbal and written English language ability, including technical language.

Preferred Skills:

- Critical thinking in interpreting testing results, with the ability to implement quick changes to improve device performance and optimize fabrication process.
- Extensive Experience with various processes of Plasma dry etching (RIE, DRIE).
- Hands-on experience on repairing and maintaining semiconductor fabrication tools.
- Experience with Coventor MEMS simulation software.