Position: Senior Mechanical MEMS Engineer.

The Senior Mechanical MEMS Engineer is responsible for experimentally characterizing the lumped mechanical and material parameters of CMOS MEMS structures. The successful candidate will facilitate improved design for performance, reliability and manufacturability by designing and performing experiments on MEMS devices and structures to extract key inputs to the MEMS design team. This candidate will also be responsible for monitoring and helping reduce discrepancy between MEMS predicted and realized behavior.

Responsibilities Include

- Establishing capability to measure mechanical properties and performance parameters of MEMS devices.
- Establishing capability of extracting CMOS MEMS material properties from micron-scale structures.
- Designing mechanical fixtures and equipment for facilitating MEMS characterization.
- Experimentally obtaining material and lumped mechanical properties for use in MEMS modeling.
- Using MEMS measurement data to accelerate the process of reducing model/measurement discrepancy.

Qualifications

- M.S. or 5 yrs experience in experimental MEMS characterization including geometry measurements, and material property and lumped parameter extraction from measurements.
- Demonstrated working knowledge and experience using MEMS static and dynamic characterization equipment including SEM, Zygo/Wyko or similar, AFM, and laser vibrometers.
- Demonstrated experience designing and fabricating fixtures to facilitate experimental mechanical characterization.
- MATLAB and Solidworks or similar proficiency a plus.
- Exposure or experience in finite element analysis a plus.
- Strong communication skills (written and verbal).
- Team-oriented with excellent leadership skills.
- The ability to work on several projects simultaneously in a multi-disciplinary team environment and to maintain a sense of priorities while responding to daily interruptions.
- Effective use of Microsoft Office products.
- Ability to adapt to a changing work structure.
- Highly motivated to perform in a small start up company environment.

Compensation

The company will create a compelling compensation package to attract a high caliber candidate. The position should be viewed as an opportunity to be an early member of the core team building a world-class company.

To apply for this position, please send us an email with a cover letter, salary requirements, references and resume to careers@akustica.com

Company

Akustica, Inc. designs, develops, and markets proprietary silicon microphones, speakers and complete acoustic system-on-chip solutions. Through a revolutionary technology known as Sensory Silicon™, Akustica products enable cell phones, PDA's, and other electronic products to sense and respond to the world around them. Leveraging standard complementary metal oxide semiconductor (CMOS) processes and microelectromechanical systems (MEMS) technology, Akustica fabricates acoustic membranes and other sensor structures in the same chip with analog and digital circuitry.

The working environment at Akustica is an energized blend of entrepreneurial spirit, cutting-edge technical expertise, and an overall commitment to teamwork and results. As the worldwide leader in acoustic MEMS technology, we offer an innovative environment that attracts, motivates, and rewards creative professionals. Our employees know they can count on the support and resources necessary to meet challenges head-on, to answer leading edge technical issues, and to achieve personal and professional success. We support employee initiative, creativity, and innovation through an atmosphere of open communication, teamwork, and a commitment to excellence.