

Lead Mechanical Engineer

Labby is a Rochester-based startup born out of MIT that is building next-generation products to transform how food testing is done, providing fast, accurate and affordable testing solutions for consumers and businesses so they can test anytime and anywhere. Our technology is at the intersection of optical sensing and AI. We are currently looking for a Lead Mechanical Engineer to join our mobile spectroscopy technology development team. Candidates should be self-starters who bring a positive attitude, integrity, and enthusiasm to our team, and are dedicated to advancing the technological capabilities of the company as we transform industrial material analysis applications.

Responsibilities include but not limited to:

- Design, integrate, and test various components of a mechatronic system of our milk optical analyzer to meet durability, regulatory, and performance requirements
- Lead design/analysis tasks for farm level milk sampler controller integration including fluid flow and model analyses
- Work with other team members to develop new system components to enhance the overall system performance
- Create flow control and sampling components to meet milk testing requirements per industry standards
- Participate as a key player in the design-build-test process for Labby's next generation optical intelligence product line including conceptual, preliminary, and detailed design, requirements definition, design reviews, prototyping, and testing
- Coordinate and communicate effectively with other engineers, technical personnel, management, and external vendors
- Support and participate in pilot testing activities as needed including test plan creation, data analysis, and test report generation and documentation

Requirements/Qualifications:

- An bachelor's degree in Mechanical or Mechatronics Engineering and 5+ years technical work experience, previous startup experience is a bonus
- Advanced SolidWorks experience
- Experience with the implementation of sensors, transducers and data acquisition systems (embedded systems)
- Outstanding organization, analytical, and problem-solving skills + Excellent written, verbal and presentation communication skills
- Proven experience with rapid design cycles: making a product from a concept through detailed design, building and testing

- Practical experience working on Bluetooth, Wi-Fi and other wireless communication technologies (IoT Wireless and Connectivity Protocols)
- Working knowledge of PCB design, fabrication and testing
- Working knowledge of instrumentation & tools such as oscilloscopes, logic analyzers, etc.
- Practical experience with 2D/3D mechanical CAD (SolidWorks, Autodesk Inventor, Fusion360, etc.)
- Practical experience with flow-systems and industrial machinery is a plus

If you are interested, please send your resume to julia@labbyinc.com. Thanks.