

Mechanical Test Engineer, Undergraduate Student

Job Type	Full-time, Temporary
Discipline	Research and Development, Mechanical Engineering
Career Level	Entry level
Education	Working towards a bachelor's degree in Mechanical or Biomedical Engineering or related degree

About Orpyx Medical Technologies Inc.

Orpyx develops sensor-based wearable solutions to prevent diabetic foot complications. We are an ISO 13485 company committed to providing quality medical devices that consistently meet customer needs and regulatory requirements. Orpyx® SI Sensory Insole System is comprised of sensor-embedded custom insoles used to empower people with diabetes to extend mobility by preventing dreaded diabetes-related complications such as foot ulcers and amputation. The sensory insoles send feedback to an app-based display, alerting the wearer in real-time of dangerous plantar pressures, enabling them to adjust behaviour immediately to help prevent damage from occurring. The sensory data is uploaded to the Orpyx SI cloud-based dashboard where the data can be remotely monitor between care visits. Our business model is a combination of medical device sales and SaaS (software-as-a-service) and meets the requirements for HCPCS and CPT reimbursement.

Who we are

The people at Orpyx are flexible thinkers and creative innovators. We come from a variety of backgrounds and carry a wealth of expertise in multiple industries, including medical, technology, software, marketing and finance. What we all have in common is an intense passion for the work we do. We have an extraordinary collection of talent that makes working here fun, unique and inspiring. Our hiring goal moving forward is to continue to build and grow a strong, effective team, while maintaining our friendly and innovative company culture.

The Position

Reporting to the Quality Assurance Manager, under the day-to-day supervision of the Lead Test Engineer In Training and working as part of a cross-functional team, the Mechanical Test Engineer, Undergraduate Student will be responsible for providing Mechanical Test Engineering support. This is a multifaceted role and is responsible for designing tests and the associated tools to perform those tests. The Mechanical Test Engineer, Undergraduate Student is responsible for performing analysis as it relates to failure modes, rapidly prototyping new test methods and proposed design mitigations.

This includes:

- Determining the root cause of issues identified during testing, assembly or returned as part of the Return Merchandise Authorization (RMA) process and ensuring processes are tracked as required
- Design and implement testing tools and methodologies intended to improve product reliability
- Work to assemble prototypes required for testing of new designs.
- Generate work instructions required for the hand off of assembly to production or external contract manufacturers
- Writing test plans and creating test cases for the product
- Troubleshooting any errors and streamlining the testing procedures
- Preparing testing reports for management
- Performing Quality Assurance activities as required for both hardware, software and system related activities
- Helping to define Quality Control processes for the assessment of incoming components
- Maintaining a clean, and safe working environment

- Performing duties in a manner that is consistent with and committed to upholding the requirements of the quality management system

Additionally, due to the ever-changing and sometimes chaotic environment of an early-stage high-tech company, the Mechanical Test Engineer Undergraduate Student may assume additional responsibilities, as required.

Qualifications

- Working towards a degree in Mechanical or Biomedical Engineering or relevant field
- Proven data collection and data analysis experience
- Excellent diagnostic and problem-solving skills
- Hands on experience with testing, hand tools, power tools, digital devices, electro-mechanical devices, computers, and CNC equipment
- Strong preference for candidates who are pragmatic perfectionists
- Brings creative energy to the development and execution of projects
- A self-starter with strong communications skills who can work well independently and in a team environment
- Excellent English communication skills, both verbal and written
- Experience working with test equipment / machines (i.e., Mark-10, Instron) considered an asset
- Experience with CAD design tools, preferably Solidworks or Fusion 360 considered an asset
- Experience with CAM tools, preferably Mach 3, Mach 4, Fusion 360, MasterCam, or GibbsCam considered an asset
- Familiarity with data analysis software packages such as PowerBI, Python, etc. is considered an asset.

Employment Status: Temporary (16-month internship, May 2023-August 2024), full-time.

Schedule: 40 hours per week from Monday to Friday. Peaks and valleys may be required periodically, depending on operational needs.

Work Location: Suite 205, 1240 – 20th Avenue S.E. Calgary, Alberta. Please note that this position is open to local candidates only.

For more information, visit: <https://www.orpyx.com>