

## *What you will do as a Test Technician*

**MacDon**

MacDon manufactures harvesting equipment which is used in various crops in many countries all over the world. As the crops and harvesting practices evolve, so too must the equipment. At MacDon the design engineering teams are always working to improve our product to continue to lead the market in harvesting excellence. Listening to the feedback from the farmers and predicting where the market is trending has given MacDon success in the agriculture industry. Before any product is available for purchase the engineering and testing team will spend years perfecting the design to ensure that it is ready to hit the market. To do this, several prototypes and tests are conceived and built. It is the responsibility of the test department to ensure the product is ready for release; both from a performance and reliability stand point.

A Test Technician for MacDon can look forward to developing real world engineering skills that are not taught in a classroom. As a Test Technician, it will be your job to validate the new product designs for the engineering team in real world operations; carrying out and executing test plans is also a key aspect of the job. This is achieved through operation of the machinery and will include troubleshooting mechanical, electrical and hydraulic systems and repairing of parts that may have failed. As your skills develop you will continue to be challenged and will also be given opportunities to use data acquisition systems. Using these systems a technician can collect and analyze data from strain gauges, accelerometers, and pressure, flow, and temperature gauges. The technician will be mentored through how these systems work and will also be given the opportunity to provide some analyses based upon the data. As technicians continue to gain experience, product knowledge, and the ability to show strong work ethic, the opportunity to move into design and other positions at MacDon will become available.

Travel will be a very important part of this role. A new technician can expect to travel within Canada/United States; visiting states such as Texas, Arizona, Kansas, California, Oklahoma, Kentucky, North Carolina, Louisiana and provinces such as Manitoba, Saskatchewan, and Alberta. As your experience grows there will be opportunities for the highest performing technicians to travel to other countries. Technicians in the past have travelled to South America, Europe, Australia and New Zealand.

This role will also develop an individual's soft skills: Excellent communication skills; oral and written. Intuitive, self-motivated and hard working with lots of patience.

If you would like to thrive in a team environment and acquire unique hands-on work experience while travelling this may be a great opportunity for you! You can expect to be challenged daily and to be given opportunities to grow your skill set, all while travelling the World.



## PURPOSE & SCOPE

The Test Technician role is a vital part of an international team of innovators that collaborate to solve critical problems related to the agricultural industry through the development of machinery. These individuals are provided a unique experience in which their problem solving abilities are tested while they develop their hands-on experience working with prototype machinery. The Test Technician will use their unique perspectives to be an integral part of the research and development of agricultural prototypes through field and lab tests over an 8-12 month term. **Term start date options: January 2022 and May 2022.**

## PRIMARY JOB RESPONSIBILITIES

- Work with a variety levels of leadership in the Test Department to manage the day to day for field testing activities of prototype machines.
- Liaise with leadership in performing and completing the verification and validation requirements of their prototype machines.
- Use project management software to efficiently compile information and prepare reports which are used in the decisions of the engineering design process.
- Work with the members of the Engineering Shop and Test Department as needed in preparing machines and equipment/tools for testing.
- Coordinate with Design Engineers on the performance of various systems and processes.
- Observe test machines in the field and lab, gather electronic data using data acquisition, make valued judgments and discuss observations with customers and team members.
- Design and fabricate testing jigs and apparatuses to collect and replicate field testing conditions.
- Analyze and present data through the completion of detailed engineer test reports in conjunction with the Test Leaders.
- Other duties as assigned.

## QUALIFICATIONS

- Enrolled in (or graduated from) University Engineering or College Engineering Technology program.

## SKILLS & KNOWLEDGE

- Strong Mechanical abilities - experience with machinery repairs is an asset.
- Possess a strong passion for agriculture and equipment.
- Ability to adapt and willing to learn in various situations.
- Highly motivated individuals with strong organizational skills.
- Excellent communication skills; oral and written.
- Intuitive, self-motivated and hard working with lots of patience.
- Proficient in Windows and Office Software.
- Good interpersonal relations.
- Exceptional customer service skills.
- Good planning and administration abilities.
- Ability to work in both team situations and independently.
- Extensive experience working with data acquisition systems, sensors and strain gauges is preferred.
- Available to travel over extended periods of time. (This position does involve potential travel outside of Canada; this is not a mandatory part of the role and students will be asked about their ability/comfort traveling throughout the recruitment process.)
- Must hold and maintain valid driver's license.

Interested applicants can submit resume and cover letter to Jillian Pitura at [JPitura@macdon.com](mailto:JPitura@macdon.com)

