

Digital Twinning for Manufacturing



We are excited to introduce you to Digital Twinning for Manufacturing, a revolutionary technology that can help manufacturers like you create new parts for the automotive sector, specifically for electric vehicles. With digital twinning, you can simulate, optimize and validate the performance of your products in a virtual environment before committing to physical production, resulting in faster time-to-market, lower costs and improved quality.

We are home to Canada's largest publicly accessible virtual reality (VR) CAVE. Thanks to the support of the Ontario Vehicle Innovation Network (OVIN), our Windsor-Essex Regional Technology Development Site (WE RTDS) will allow small- and medium-sized Ontario-based companies to develop C/AV technologies using the specialized hardware and software of the VR CAVE **FREE of charge**.

What is digital twinning?

- A virtual replica of a physical object or system, created using advanced modeling and simulation software
- Simulates real-world scenarios to provide insights and predict outcomes
- Helps manufacturers make informed decisions about product design, production processes and maintenance
- Virtual training
- Walkthroughs of manufacturing space – allowing companies to remodel their shop floor

Eligibility requirements:

- Must be an Ontario-based company
- Must have less than 500 employees
- Must be working on automotive-related technology/parts for electric vehicles
- Willingness to adopt new technologies to improve products and processes

Ideal candidate:

- Looking to innovate and stay ahead of the competition in the fast-changing automotive industry
- Working on new technologies or parts for CAV/EV
- Looking to remodel the shop floor for new projects



Visit WindsorEssexRTDS.com to learn more.