

AUTOMOTIVE RESEARCH AND DEVELOPMENT CENTRE (ARDC) VEHICLE DYNAMICS SIMULATOR LABORATORY



HISTORY:

- The Vehicle Dynamics lab was established in 2018, first of its kind in North America with a 9 Degree of Freedom Driving Simulator. The lab has a footprint of approximately 4,000 square feet.

CAPABILITIES:

We support the following areas in the Virtual environment;

- Vehicle Dynamics – Ride & Handling
- Control system design and verification (Hardware in The Loop)
- Advanced Driver Assistance Systems (ADAS)
- Powertrain/ Driveline Control Systems
- Exterior Lighting

VEHICLE PROGRAMS SUPPORTED 2026 YTD:

- Jeep® Grand Cherokee, Jeep Cherokee, Jeep Recon, Jeep Wrangler, Ram 1500 REV/ BEV, Ram 2500, Dodge Charger/ SRT

PARTNERSHIPS:

- Continuous partnership with the University of Windsor through the engineering co-op graduate students and sabbaticals.

FUN FACT:

- How can I be in Windsor and, at the same time, in Brazil, France, Germany, and Italy?

No, it's not time travel, our simulator lets us drive on roads from any of these countries.

