



Innovative Vehicle Institute



SERVICES OFFERED IN:

English and French



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Bringing together state-of-the-art expertise and equipment, the IVI is at the heart of the electric and autonomous vehicle ecosystem. Its mandate is to assist companies towards innovation through applied research, technical assistance, training and information, with the ultimate goal of reducing the transportation sector's environmental footprint.

AREAS OF INNOVATION EXPERTISE

- Electric vehicles
- Batteries
- Vehicular intelligence
- Energy efficiency
- Autonomous and semi-autonomous vehicles

Affiliated with Cégep de St-Jérôme

TECHNICAL AND BUSINESS SERVICES

- Concept ideation & design review
- Design Services
- Fabrication, Prototyping and Installation Services
- Field trials/Simulation
- Rapid prototyping / 3D printing
- Regulatory guidance
- Technical feasibility of process, product
- Technology development
- Testing Services

APPLIED RESEARCH AND DEVELOPMENT

- 3D design & rapid Prototyping
- Automation
- Concept validation
- Manufacturing process design and development
- Process optimization
- Product Design & Development
- Product Re-design & Improvement
- Provincial and federal grant proposal development
- Reverse Engineering
- Technology validation and transfer

TRAINING

- Corporate on-site & in-house training
- Interactive Workshop Sessions

TECHNOLOGY DIFFUSION

- Customized technology demonstrations
- Industry-specific events & symposia
- Networking events
- Testing facility & personnel

INVENTORY OF SPECIALIZED EQUIPMENT

- 3D Handy Scan Creaform Scanner
- AV-900 Direct current Source
- Data acquisition systems LMS, DataQ, ISSAQ instruments
- DC current source ABC-150
- Battery impedance measurement Hioki BT3563
- Thermographic camera Jenoptik VarioCAM
- Li-Ion battery packs
- Simulation software LMS Imagine.Lab AMESim, Siemens NX Advanced Simulation
- Motohawk Controller
- Motor Dynamometer Mustang
- Roller Dynamometer Mustang
- Portable Opacimeter Red mountain Engineering
- Ultracapacitors
- Ultrasonic welding and fusion machine Stapla Ultrasonics
- Vector CAN / Flexray system
- Glycol cooling system NeslaB
- Ultrasonic splicer and welder Vitrek 952i
- Flow meter Kistler
- Electrical harness design Software
- Power accuracy analyzer Yokogawa WT3000



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