



## Centre de productique intégrée du Québec

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### CEGEP Affiliated

Cégep de Sherbrooke



### Fields of activity

For all manufacturing firms:

- Feasibility studies concerning the acquisition of multi-module software applications
- Acquisition and implementation of ERP, CFAO, CRM systems; maintenance
- Implementation of e-Technologies
- Integration of production line data
- Dashboards
- Integrated project management
- Process reengineering
- Development of man-machine interfaces (MMI)
- Dimension scanning
- 3D laser scanning for modelling
- Fast prototyping (i.e., scanning to print solid prototypes)



### Examples of projects

- Design of an e-Manufacturing production unit
- Optimization of cutting tools management software
- Development of a scanning process for use in the manufacture of orthopaedic shoes
- Production equipment management software
- Integration of CAD/CAM technologies featuring interactive link to production management software
- Integration of preventive maintenance – ERP
- Fast prototyping, form modelling and casting of an engine crankcase in aluminium / magnesium alloy



### Technological innovations

- Design of a parameterized production system: integration of parameterized data for batch ordering in the production of automated designs, CNC programs and images for use by a laser actuator
- Development and implementation of an intelligent (RFID-based) production control integrated into production monitoring by ERP system
- Development of a digital process for the manufacture of orthopedic shoes