



SERVICES OFFERED IN:

French, English, Spanish



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POINT OF CONTACT:

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ICI is an integrated centre of innovation and expertise in graphic communications and printability that actively supports businesses in their technological and commercial development. ICI is a resource centre for the industry. Regardless of your line of business, we partner with you to develop innovative printing applications!

AREAS OF INNOVATION EXPERTISE

- Applied research and development
- Consultation
- Laboratory analyses
- Printability tests
- Public or customized training for the industry
- Conferences

Affiliated with Collège Ahuntsic



TECHNICAL AND BUSINESS SERVICES

- Concept ideation & design review
- Design Services
- Fabrication, Prototyping and Installation Services
- Facilitation service (introduction)
- Field trials/Simulation
- Ingredient selection and recommendations
- Logistics
- Performance Monitoring and Management
- Printability testing and analysis
- Problem solving
- Project management
- Proof of concept
- Reverse engineering
- Sample analysis & testing
- Scientific and technological monitoring
- Scientific report writing
- Technology & workflow consultation

- Technology development
- Technology evaluation / validation
- Testing Services

APPLIED RESEARCH AND DEVELOPMENT

- Concept validation
- Cost avoidance
- Laboratory/industrial/pilot scale prototyping
- Manufacturing process design and development
- Measurement inspection and alignment
- Performance monitoring and analysis
- Process optimization
- Product Design & Development
- Product Re-design & Improvement
- Provincial and federal grant proposal development
- Report preparation on R&D results
- Sensory research facilities
- Technology validation and transfer

TRAINING

- Corporate on-site & in-house training
- Curriculum development
- Design, development, and delivery of customized training
- Interactive Workshop Sessions
- Needs assessment and gap analysis
- Qualitative & quantitative research
- Skills assessment/Competency evaluation
- Training planning
- Train the trainer

TECHNOLOGY DIFFUSION

- Customized technology demonstrations
- Evening speaker series
- Field site product demonstration
- Industry-specific events & symposia
- Literature reviews
- Networking events
- Participation at trade shows & other venues with or on behalf of partners
- Presentation of results at conferences
- Publishing in Peer Reviewed Literature
- Rental of space & equipment
- Seminars and Workshops
- Technical publications

INVENTORY OF SPECIALIZED EQUIPMENT

Analytical laboratory of papers and prints:

- 60° glossmeter
- Cobb water absorption
- Dynamic water penetration measuring (IGT)
- Lint measuring (paper linting)
- Micrometres
- Spectrodensitometer by ATS and eXact by X-Rite
- Static meter
- Taber Abraser and Ink Rub Tester (resistance to abrasion)
- Technibrite (whiteness and brightness, opacity)
- Verity image scanner and analyser

Printability testing and prototyping:

- Aquaflex flexographic printing machine, 6 units, 10" width, IR or UV drying
- Ekra Series X1 semi-automatic silk-screen printer, 13.5" x 17", with possibility for hot-air or UV drying
- Heidelberg SM 74 offset sheet press, 5 units
- Rotary Harris M110 offset, 4 recto/verso units, 26" width, coldset or heatset mode
- Varyflex VF 430 press (unique in Canada) 17" width, 5 units with mobile processes: 4 flexo stations / 2 rotogravure stations / 1 rotary silk-screen station, mobile drying: hot air or UV, mobile UV coating, explosion-proof press for rolling water-, solvent- or UV-based inks, out-feed in rolls, sheets or die-cutting

Ink analysis laboratory:

- ATS rheometer
- Datacolor spectrophotometer
- IGT (offset ink use and trapping analysis, paper absorption)
- Inkometer (measuring ink tack)
- K Printing proofer (laboratory rotogravure printing)
- MB3000 infrared spectrometer (ABB), IR close and IR medium)
- Other: Water intake, grind (particle size), gallon weight of viscose or liquid inks
- RK Flexiproof 100 (laboratory flexographic printing, hot-air or UV drying) and Phantom proofer

Ink preparation laboratory:

- 6" UV laboratory dryer with conveyor (mercury, gallium and iron lamps)
- Bhuler FPML2-EX dispenser and shredder
- Liquid-ink mixer
- Mastersizer M3000 diffraction particle-size analyzer (Malvern), 0.01 - 3,500 microns