

BUILDING ENVELOPE TECHNOLOGY ACCESS CENTRE (BETAC)

Proud member of
Tech-Access Canada



BETAC
BUILDING ENVELOPE TECHNOLOGY ACCESS CENTRE



SERVICES OFFERED IN:

English



ADDRESS:

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WEBSITE:

<http://www.rrc.ca/betac>



POINT OF CONTACT:

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The Building Envelope Technology Access Centre (BETAC) enables organizations in the building construction industry to access Red River College's capability, equipment, assets and expertise. BETAC's services address the inherent challenges with designing and constructing a durable, energy efficient building envelope in Manitoba's unique climate.

AREAS OF INNOVATION EXPERTISE

- Building construction
- Building airtightness
- Building envelope test methods
- Commercial and institutional buildings
- Building envelope testing
- Building commissioning

Affiliated with Red River College



TECHNICAL AND BUSINESS SERVICES

- Assistance with building products approvals and commercialization
- Business development & market research services
- Commercialization referrals
- Competitive assessments
- Components/parts fabrication
- Concept ideation & design review
- Construction Consultation Services
- Early-Stage Business Development
- Fabrication, Prototyping and Installation Services
- Field trials/Simulation
- IP Protection facilitation
- Literature reviews
- Market analysis
- Non-destructive inspection (NDI)
- Performance Monitoring and Management
- Problem solving
- Product testing
- Proof of concept
- Regulatory guidance
- Sample analysis & testing
- Scientific and technological monitoring
- Scientific report writing
- Technology & workflow consultation
- Technology development
- Technology evaluation / validation
- Whole wall testing – thermal, moisture, structural



APPLIED RESEARCH AND DEVELOPMENT

- Coaching
- Concept validation
- Cost avoidance
- Design of Experiment
- Industrial scale prototyping
- Laboratory/pilot scale prototyping
- Non-destructive inspection
- Performance monitoring and analysis
- Process optimization
- Product Re-design & Improvement
- Provincial and federal grant proposal development
- Regulatory guidance
- Report preparation on R&D results
- Technology validation and transfer



TRAINING

- Corporate on-site & in-house training
- Building envelope modelling training
- Curriculum development

- Design, development, and delivery of customized training
- Interactive Workshop Sessions
- Large building airtightness training
- Needs assessment and gap analysis
- Qualitative & quantitative research
- Skills assessment/Competency evaluation
- Training planning
- Train the trainer



TECHNOLOGY DIFFUSION

- Customized technology demonstrations
- Field site product demonstration
- Industry-specific events & symposia
- Networking events
- Open houses - Testing facility & personnel
- 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



INVENTORY OF SPECIALIZED EQUIPMENT

- Building envelope sensors – temperature, moisture, relative humidity, heat flux
- Field site product demonstration
- Industry-specific events & symposia
- Miscellaneous building envelope diagnostic tools – mini-lab for window and door testing in field; infrared thermography cameras; video boroscope for wall investigations; moisture meters
- Participation at trade shows & other venues with or on behalf of partners
- Rental of space & equipment
- Seminars and Workshops



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