

# VALUE-ADDED MATERIALS AND TRANSPORTATION EQUIPMENT

PLASTICS  
METALLIC STRUCTURES AND PRODUCTS  
WOOD PRODUCTS  
CONSTRUCTION MATERIALS AND PRODUCTS MACHINERY  
COMPOSITE MATERIALS  
RUBBER  
PRE-FABRICATED HOMES  
FURNITURE  
TRANSPORTATION EQUIPMENT



LEVERAGING ITS STRATEGIC GEOGRAPHICAL POSITION IN NORTH AMERICA AND BENEFITING FROM THE PRESENCE OF RENOWNED RESEARCH CENTRES AND LEADING GLOBAL COMPANIES, THE VALUE-ADDED MATERIALS AND TRANSPORTATION EQUIPMENT INDUSTRY OCCUPIES A PLACE OF CHOICE IN THE REGIONAL ECONOMY.

Encompassing manufacturers of products made out of wood, metal, rubber, plastics and composite materials, as well as machinery and transportation equipment manufacturers, the industry is solidly positioned. These manufacturers have successfully adapted to the context of globalization and new market realities by using innovation as a powerful growth driver.

Today, the industry has attracted international attention thanks to the innovative spirit of its entrepreneurs, who continue to create high value-added products and remain on the cutting-edge.



THE VALUE-ADDED MATERIALS AND TRANSPORTATION EQUIPMENT INDUSTRY IN THE QUEBEC CITY REGION

**530** companies  
**12,000** jobs  
**\$3 billion**  
in annual revenues  
**75,000**  
degree holders  
**180** researchers

Data compiled for the Quebec City census metropolitan area (CMA) by Québec International.



## RESEARCH AT THE SERVICE OF INDUSTRY

In Quebec City, the value-added materials and transportation equipment industry includes various major research centres, groups and consortiums that utilize their expertise to facilitate business growth.

The **Quebec Industrial Research Centre (CRIQ)** specializes in manufacturing process automation, environmental technologies, industrial systems development, qualification testing and product certification.

**FPIinnovations** is the world's largest non-profit forest research institute and a global leader in the areas of wood product research and technology transfers.

The **Aluminum Research Centre/REGAL** represents researchers from six Quebec universities, including Quebec City-based Laval University. The Centre's research projects focus on the production, processing and use of aluminum and its derivatives.

**Laval University's Advanced Materials Research Centre** specializes in new materials. The Centre's research projects focus on synthetic and natural macromolecules, nanomaterials and biomaterials.

**Laval University's Interdisciplinary Research Group on Finite Elements** specializes in digital simulation. The Group's research projects focus on wood's mechanical behaviour, composite part design and polymer processing.

The **Quebec Plastics and Composite Materials Research Consortium** facilitates exchanges between industry and the scientific community. It provides financial support to R&D projects in the pre-competitive phase and oversees technology transfers to companies, as well as technological integration.

The **Centre for Mineral Technology and Plastics** is a technology transfer centre specializing in polymer formulation, retro-engineering, fault analysis, product development, process upgrading, recycling and bioplastics.

## DESIGN AND INNOVATION

An internationally recognized leader employing 850 workers, **Teknion Roy & Breton** designs, manufactures and markets office systems and furnishings. Its reputation is based on design and innovation, as evidenced by its four awards at NeoCon, the North American design exhibition. Also known worldwide, **Julien Inc.** excels in manufacturing commercial kitchens and high-volume industrial sub-contracting. The company has distinguished itself thanks to its 350 employees and their expertise in integrating sheet metal. The company has completed projects in some 20 countries in a variety of sectors (medical equipment, agrifood and transportation, etc.).



## DEDICATED TO EXCELLENCE

The construction sector—a driving force of the regional economy—boasts a number of manufacturers of cutting-edge products and materials. For example, **Jeld-Wen**, one of the world's leading manufacturers of doors and windows, operates two plants in the region. The sector also includes notable names such as **Masonite International Corporation**, **Caron & Guay** and **Solaris Quebec**. The Quebec City region is also home to prefabricated house manufacturers such as **Pro-Fab** and **Maison Laprise**. Founded in 1965 and ranking among the leading Canadian companies in the prefabricated housing sector, **Modulex International** has successfully completed over 20,000 projects in some 25 countries.

**METALLIC STRUCTURES AND PRODUCTS** - CANAM, EPSYLON CONCEPT, FINAR STEEL BUILDINGS, GAMMA INDUSTRIES, GE CANADA, GENERAL DYNAMICS, HONCO, JULIEN INC., RODRIGUE METAL, SML STAINLESS STEEL GROUP, SUPERMETAL

**TRANSPORTATION MACHINERY AND EQUIPMENT** - ABSICO BRAKE, ECL SERVICES, FOURGONS ELITE, LABRIE ENVIROQUIP GROUP, LAROCHELLE EQUIPMENT, MANAC, MECNOV, OCEAN GROUP, PREVOST CAR, ROTOBEC, S. HUOT, WAJAX POWER SYSTEMS



## THRIVING WOOD INDUSTRY

Wood production has deep roots in the Quebec industrial tradition. Initially a lumber manufacturer, **Maibec** is now Canada's leader in the production of exterior panelling and the most important producer of white cedar shingles in North America. **Preverco** is a leader in the area of high-quality wood floors. Bearing the seal of technological innovation, the company's products have received various environmental certifications. The company has also been ranked twice among Canada's 50 best-managed companies. **Prémoulé** has experienced remarkable growth. From its modest origins in 1968, it has become the North American leader in the manufacturing of postformed countertops and custom cabinet doors and accessories.



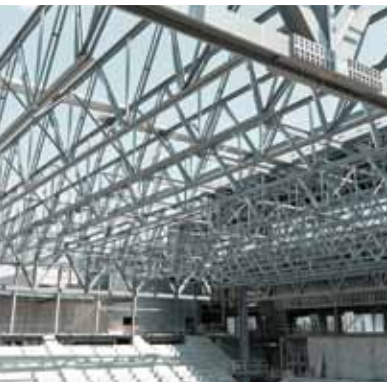
## MAJOR INFRASTRUCTURE

When it comes to major infrastructure projects, Quebec City has a long track record of success! **Canam Group**, which specializes in the construction of buildings, bridges and metal structures, has more than 25 offices in Canada, the US, Romania, India and China. Indianapolis International Airport, Vancouver's BC Place Stadium and Montreal's Maison Symphonique all bear the hallmarks of this regional powerhouse. **Supermetal**, with four factories in Canada and the US, has carved out an enviable reputation for itself over the past 50 years. The company took part in the expansion of storied Fenway Park, home of the Boston Red Sox. With unique expertise in self-supporting steel buildings, **Honco** has completed projects in some 15 countries on four continents.



## TRANSPORTATION WITHOUT BORDERS

The Quebec City region takes pride in the fact that a number of major players in the transportation equipment sector were founded and developed locally. **Prevost Car**, a division of Volvo Group, is a global leader in the manufacturing of top-of-the-line buses and vehicles. Today, more than 10,000 of its buses are wending their way across North America. **Labrie Enviroquip Group** is one of the most important North American manufacturers of waste management equipment. The company makes continuous investments in R&D in order to offer the safest, most efficient and most environmentally-friendly equipment on the market. Other companies have also helped to establish Quebec City's reputation, such as **Ocean Group**, **Absco Brake**, **Larochelle Equipment** and **Manac**.



## POWERFUL HIGH-PERFORMANCE EQUIPMENT

In the areas of equipment and machinery, Quebec City offers one-of-a-kind expertise. A global leader in aluminum production equipment, **ECL Services** has a total of 700 employees in its eight subsidiaries. The company invests 25,000 hours in R&D every year to stay on the cutting edge. **Mecnov** specializes in the design, manufacture and integration of made-to-measure industrial equipment. It also offers non-destructive automated control systems to equipment makers operating in the aerospace, automobile, oil, gas and electricity production sectors. **Wajax**, the leading provider of power system solutions in Canada, has 27 offices across the country, from the oilfields of Western Canada to the shores of the Atlantic.

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**RUBBER, PLASTICS AND COMPOSITE MATERIALS** - BAIN ULTRA, FOAM CREATIONS, IPL, PH TECH, POLYALTO GROUP, PULTRALL, REMATECH **FURNITURE, CONSTRUCTION MATERIALS AND PRODUCTS, PRE-FABRICATED HOMES** - CARON & GUAY, FRENECO, JELD-WEN, MAIBEC, MASONITE INTERNATIONAL CORPORATION, MODULEX, NOVIK, PRÉMOULÉ, PRESTOLAM, PREVERCO, PRO-FAB, SOLARIS QUEBEC, TEKNION ROY & BRETON

## BREAKING THE MOULD

The Greater Quebec City region has unique know-how in the areas of plastics and composite materials. Every day, **Polyalto Group**, **Bain Ultra**, **IPL**, **Pultrall**, **Novik** and **Rematech** apply their expertise to a wide range of products exported around the world. **Foam Creations**, drawing on a unique plastic foam injection moulding process, has attracted global attention for its line of lightweight comfortable shoes. Today, it develops and manufactures parts and accessories for major manufacturers. For the past 50 years, **PH Tech** has played a leading role in the design and extrusion of high-performance PVC profiles used in residential door and window manufacturing.



# QUEBEC CITY HAS THE LOWEST OPERATING COSTS IN NORTH AMERICA AMONG CITIES IN ITS CATEGORY

On average, overall operating costs for companies are 5.8 % lower than in US cities.

Source: KPMG Competitive Alternatives 2012.



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