

ICT AND ELECTRONICS

VIDEO GAMES OPTICS/PHOTONICS
GEOSPATIAL TECHNOLOGIES MULTIMEDIA CREATION
IT CONSULTING SERVICES SOFTWARE DEVELOPMENT
DEFENCE AND PUBLIC SAFETY ELECTRONICS
3D ENVIRONMENTS SPECIAL EFFECTS
VIRTUAL/AUGMENTED REALITY TELECOMMUNICATIONS
INTELLIGENT TRANSPORTATION SYSTEMS
REMOTE DETECTION

AS A MAJOR ICT&E SKILLS HUB,
THE QUEBEC CITY METROPOLITAN
REGION OCCUPIES A PLACE OF CHOICE
IN NORTH AMERICA.

Driven by the talent, creativity and innovative spirit of local entrepreneurs, researchers and creators, the ICT&E industry has experienced dramatic growth over the past 20 years and is now a major economic driver. Quebec City offers state-of-the-art expertise in high-potential sectors such as optics/photonics, digital arts, interactive entertainment and geospatial technologies. It is also home to leading companies in the consulting, software development and electronics sectors.

In Quebec City, acclaimed research centres, leading multinationals and small innovative firms are engaged in profitable collaborations placing them on the cutting edge of the industry.



Photo: Marc Robitaille



ICT&E INDUSTRY
IN THE QUEBEC CITY REGION

540 companies

19,500
jobs including

2,000
research jobs

\$1.7 billion
in annual revenues

65 research chairs,
centres, groups and institutes

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



RESEARCH AT THE SERVICE OF INDUSTRY

In Quebec City, the information and communications technology and electronics industry (ICT&E) includes 65 research chairs, centres, groups and institutes. A hub for applied research and home to a number of internationally known figures, the region has transformed innovation into a powerful growth driver.

As Canada's largest optics/photonics research centre and the only industry-focused facility of its kind, the **National Optics Institute (INO)** is global leader. Since it was founded, it has carried out 50 technological transfers to industry and generated more than 25 spin-off companies.

www.ino.ca

DRDC Valcartier is the country's largest national defence research centre, boasting recognized expertise and equipped with state-of-the-art laboratory facilities (virtual immersion, hyperspeed impact research, hyperspectral measurement). One-half of its R&D program is carried out in partnership with industry.

www.drdc-rddc.gc.ca

The one-of-a-kind **Institute for Information Technologies and Societies (ITIS)** serves as a liaison between Laval University, researchers, business and governments with a view toward facilitating the emergence of innovative high-potential IT projects. The ITIS has carried out nearly 20 research projects since it was founded.

www.itis.ulaval.ca

TRAINING AND WORKFORCE

The Quebec City region is home to a large-scale pool of specialized workers, including close to 60,000 graduates in the fields of ICT&E. Over 1,000 ICT&E students graduate each year from local universities, colleges and vocational schools, all of which are recognized for the quality of their teaching. They include the National School of Interactive Entertainment (ENDI), which seeks to forge closer ties between the education sector and industry and offers an innovative model in which students work under the supervision of industry mentors on practical applications involving multi-platform games.



OPTICS/PHOTONICS EXPERTS

Home to major players (EXFO, ABB Analytical measurement, TeraXion, etc.), the Quebec City region accounts for close to 80% of the province's optics/photonics expertise. Giants such as NASA, General Electric, CAE, Toyota and Boeing use Creaform's Handyscan 3D laser scanners on a daily basis. These ultrahigh-precision devices are used to capture the shape of stationary or moving objects in the smallest detail and in record time. The real-time digitized 3D images can be used for digital design, analysis or manufacturing.

BOLD CREATORS

From cellphones to IMAX screens, multi-screen and multi-platform content production galvanizes local creators, who are masters in the art of entertainment. Animation, special effects, video games, 3D environments, stereoscopes, virtual/augmented reality: nothing is too audacious for them! Quebec City is the province's #2 video game development hub and the list of locally made blockbusters is long indeed. Thanks to the talents of local creators, Spider-Man, The Black Eyed Peas Experience, Guitar Hero and Prince of Persia now have tens of millions of fans!



OPTICS/PHOTONICS - CREAFORM 3D, EXFO, INFODEV, OBZERV, OPTEL VISION, OPTOSEcurity, PHYTRONIX, TERAXION
VIDEO GAMES - BEENOX-ACTIVISION, FRIMA STUDIO, SARBAKAN, UBISOFT
SOFTWARE AND IT SERVICES - CGI, DE MARQUE, FUJITSU, LGS, ORACLE-TALEO, SIMCO TECHNOLOGIES

GEOSPATIAL: A UNIQUE ECOSYSTEM

Used in remote detection, global positioning systems (GPS) and geographic information systems (GIS), geospatial technologies are present everywhere. As a world-class hub for geospatial companies, software/database integrators and designers and telecommunications companies, the region also benefits from the presence of research centres as well as a vast network of suppliers and private and public-sector clients. Korem continues to grow in this unique ecosystem by developing integrated and flexible business intelligence solutions. A member of the Google partner program, the company is now positioned in the top ranks of integrators of Google's systems and geospatial technologies.





WORLD-CLASS SOFTWARE PRODUCTS

Local companies have garnered international recognition for their cutting-edge computer systems and software. STADIUM®, a software application developed by SIMCO Technologies, is used to reliably predict the long-term behaviour of reinforced concrete and to improve its durability. This application has been used on more than 150 major projects, including the construction of new locks in the Panama Canal and the management of dock facilities at the Port of Rotterdam. In addition, the solutions developed by Taleo (Oracle) enable more than 5,000 organizations in 187 companies to recruit talent and manage employee pay and performance. With more than 200 million candidates, Taleo's Talent Grid cloud community provides access to the world's largest talent management network.



VAST RANGE OF IT SERVICES

With global leaders and innovative companies such as Momentum Technologies, GDG Inc., Précicom and Systematix, the IT consulting sector plays an important role in the region. Founded in Quebec City in 1976, CGI is a homegrown success story with an enviable reputation. It now has a workforce of more than 30,000 professionals in 125 offices worldwide. In addition, Japanese IT giant Fujitsu operates one of its largest facilities outside Japan in the region, where it has more than 1,100 employees. In 2011, Fujitsu invested more than \$20 million locally to implement its very first innovation centre in Canada.

ALL-SEASON CHARGING STATIONS

Gentec develops innovative energy management solutions geared towards the commercial and industrial sectors. It has teamed up with AddÉnergie Technologies to produce Canada's very first electric vehicle charging station— and the very first in the world to be adapted to northern climates!



quebecinternational.ca

MULTIMEDIA CREATION - EX MACHINA, IXMEDIA, MIREGO, NEBBIO, NURUN, PIRANHA, 10TH AVE PRODUCTIONS, QUEBECOM, SAGA FILM

ELECTRONICS - GENTEC, LAB-VOLT SYSTEMS, M2S ELECTRONICS, OLYMPUS NDT

DEFENCE AND PUBLIC SAFETY - OBZERV, OPTOSEcurity, THALES

GEOSPATIAL TECHNOLOGIES - BENTLEY SYSTEM, TRIFIDE GROUP, INTELLI³, KOREM, SPATIALYTICS, XEOS IMAGING

DEFENCE AND PUBLIC SAFETY

Boasting cutting-edge IT, optics/photonics, geospatial and electronics expertise, the region develops state-of-the-art technologies for the key defence and public safety market. Today, Obzerv's cameras are used for coastal surveillance along the new landing strip at Japan's Haneda airport. Thanks to their unparalleled range and accuracy, these devices are used to assess potential threats at very great distances in total darkness, even under adverse atmospheric conditions.



QUEBEC CITY N° 1 IN NORTH AMERICA FOR LOW OPERATING COSTS AMONG CITIES IN ITS CATEGORY

Overall, operating costs are 5.8% cheaper on average than for companies in US cities. The region's cost-benefit advantage is even greater in the areas of video game production (23.4%) and high-tech software development (12.4%).

Source: KPMG Competitive Alternatives 2012.



SUCCESS AT HOME
AND ABROAD



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