



# Cape Breton

## Nova Scotia, Canada

## Education & Research

Cape Breton has a vast network of educational institutions, research facilities and willing partners that can help to build your business from conceptualization through to commercialization and further value-added product development. We have a history of sharing our expertise with others and this bodes well for companies seeking out innovative partnerships.



### Key Opportunities

#### ► Research in energy and the environment

Cape Breton University's (CBU) Verschuren Centre for Sustainability in Energy and the Environment is a dynamic research centre dedicated to finding innovative and sustainable solutions to energy and environmental issues. The Centre is an active collaborator with numerous private sector firms to conduct research and development on new opportunities and technologies. Current research activities include: a partnership with Lockheed Martin to explore the potential to grow and harvest willow as a biomass energy source; research with Yava Technologies to develop the next generation of lithium ion batteries; and research relating to mine water remediation and mine cap management.

#### ► Marine research

Université Sainte-Anne's Petit-de-Grat campus has an active Marine Research Centre that works with industry on such

projects as biological research on Atlantic lobsters and research on optimal shipping conditions for live snow crab. CBU's research and partnerships have improved understanding of emerging fisheries and land-ocean interactions in our coastal ecosystems. Unama'ki Institute of Natural Resources provides resources for Mi'kmaq equal participation in natural resource management.

#### ► Oceans

Nova Scotia Community College's (NSCC) Marconi Campus offers leading customized training in a variety of sectors with significant expertise in the oil and gas and fabrication industries. A partnership between CBU's LearnCorp International, NSCC and ExxonMobil offers oil and gas training using energy industry labs and training facilities at CBU and NSCC. NSCC's Nautical Institute in Port Hawkesbury supports training and other oceans-related initiatives and applied research opportunities for industry partners.



### ► Research Chairs

CBU has had a number of Tier 1 and Tier 2 Canada Research Chairs in such wide-ranging specialized areas as Intangible Culture to Integrative Science and Molecular Spectroscopy. In addition, the university also has active research chairs in the areas of Marine Ecosystem Management, Aboriginal Business Studies and Environmental Remediation. Verschuren Centre Research Chairs include Mine Water Management, Environmental Remediation and Renewable Energy.



### Top Reasons to Invest in Cape Breton

- **Strong research and development support**  
Cape Breton has world-class research institutions – CBU, NSCC and Université de Sainte-Anne – that work collaboratively with a number of innovative companies.
- **Innovative partnerships**  
Cape Breton companies are willing to share their expertise with companies and governments from around the globe.

### Key Infrastructure/ Resources

- **Business support**  
The Atlantic Canada Opportunities Agency plays a significant enabling role in education and research by providing financial and other support services. Innovacorp has an internationally recognized approach to technology commercialization and has more than \$60 million in capital commitments available for high growth technology companies from its Nova Scotia First and Clean Technology funds. Nova Scotia Business Inc. attracts

new companies to the province, and works directly with companies to help them meet their growth potential through international business development, financing and venture capital. The National Research Council-Industrial Research Assistance Program is Canada's premier innovation assistance program for small and medium-sized enterprises. Spark Cape Breton is an innovation challenge that awards up to \$50,000 to the best early-stage technology companies to support the completion of prototypes or preparation for taking the product or service to market.

- **Infrastructure support**  
CBU's Verschuren Centre for Sustainability in Energy and the Environment is an active collaborator with numerous private-sector firms to conduct research and development on new opportunities and technologies. For start-ups looking for full service technology incubation, Venture Solutions Inc. provides office and laboratory space, as well as access to a central receptionist, accounting, and project management services.

### Education & Research Success Stories

- **Sydney Tar Ponds Project**  
The Sydney Tar Ponds Project had significant educational and research partnerships during the life of the project. A number of engineering and environmental service firms were employed to reclaim North America's largest toxic waste site, which was contaminated by 100 years of steel and coke production. The reclaimed Tar Ponds, Coke Ovens and Sydney Steel sites combine to form one of the largest brownfield redevelopments in North America. With the clean-up now complete, Cape Breton expertise is being shared with international companies as they work to remediate contaminated sites world-wide.
- **Yava Technologies**  
Yava Technologies Inc. has developed a high-tech, environmentally friendly, mineral

recovery process that has the potential to raise the global mining and mineral processing industries to much higher levels of efficiency and environmental friendliness. Its state-of-the-art wet chemistry lab at CBU is backed up by a range of analytical tools as well as a pilot plant facility situated on campus.

- **ExxonMobil - LearnCorp/NSCC International training partnership**  
CBU's LearnCorp International (LCI) and NSCC have enjoyed a 12-year relationship with ExxonMobil to train students for the oil and gas sector. LCI's largest training program to date, the Liquefied Natural Gas program includes class time and hands-on training using the combined state-of-the-art energy industry labs and training facilities at CBU and NSCC campuses.



**Invest in Cape Breton Today!**  
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