

# INDUSTRIAL BIOTECHNOLOGY

## A REGION OF OPPORTUNITY



### FREDERICTON NEW BRUNSWICK

One of Canada's Most Fertile  
Bioscience Ecosystems

Located in the heart of Canada's most diverse biomass, Fredericton houses the province's largest cluster of biotechnology/biosciences companies. Our biotech operations have convenient access to a rich array of privately-held forests, waterways, coastlines and agricultural lands. The city's extensive research infrastructure and talent pool – comprised of more than a combined 60 research chairs, organizations, and institutions – contribute significantly to the success of emerging and established commercial operations in forestry, fisheries, healthcare, agriculture, and clean-tech.

Biotechnology is flourishing in Canada. We are ranked 5th globally for productivity in biotechnology and are considered a global leader in most publicly traded biotech companies and most PhD graduates in life sciences per capita.

**5%** of total land area  
in New Brunswick  
is farmed

**112** fish processing  
plants, 90 salmon  
production sites

**50%** of NB's productive  
forest land  
privately owned

**Canada:**  
**LOWEST BIOTECH**  
business costs of the G7

"Biorefining and bioprocessing aimed at developing multiple products from biomass assets is a huge opportunity here based on our abundance of biomass assets, diverse cluster of non-academic research organizations, skilled workforce, and availability of privately-owned assets."

**MEAGHAN SEAGRAVE**  
FORMER EXECUTIVE DIRECTOR BIONB

### YOUR LOCATION ADVANTAGE

- Close proximity to abundant, diversified biomass
- 60+ research organizations, chairs, and 14 non-academic research institutes
- NB's largest knowledge industry cluster with deep engineering expertise
- One of Canada's most trade active provinces
- Fredericton, NB ranked #1 most cost competitive city in Canada (*KPMG Competitive Alternatives 2016*)
- Lowest gigabit connectivity rates in Atlantic Canada
- Best Micro City (*fDi Magazine Financial Times 2013-2014*)
- Canada's 4<sup>th</sup> highest university educated labour force (2011)
- Most convenient time zone for North American, European, and South American markets

### RICH RESOURCES. OPPORTUNITY ASSETS.



#### AGRICULTURE

- Lowest entry cost in Canada
- 4.5M hectares
- 5% in production
- Four agriculture research centres



#### FISHERIES AND AQUACULTURE

- 112 processing plants (1B / year)
- More than 90 salmon production sites
- Canada's 2<sup>nd</sup> largest seafood producer (1.7B annual sales)
- Four fisheries and marine institutes



#### FOREST

- 6M Ha (85% productive, 50% privately owned)
- Two forest research centres

### REGIONAL OPPORTUNITIES

More than 100 years of innovation in forestry, agriculture, aquaculture and marine has resulted in entrepreneurial success and opportunities in:

- Biochemicals and Bioenergy (Agriculture)
- Bioactives (Aquaculture and Fisheries)
- Value Added Wood and Biomaterials
- Forest Biorefining Innovation
- Medical Technologies
- Health Care
- Clean Tech



## WORLD RENOWNED RESEARCH

- Agriculture and Agri-Food Canada – Fredericton Research and Development Centre
- Atlantic Cancer Research Institute
- Atlantic Forestry Centre – Canadian Forest Service
- Biorefinery Technology Scale-Up Centre (CCNB)
- Coastal Zones Research Institute Inc. (CZRI)
- Fisheries and Oceans Canada – Gulf Fisheries Centre
- Fisheries and Oceans Canada – Saint Andrews Biological Station
- Horizon Health Network
- Northern Hardwoods Research Institute (NHRI)
- Research and Productivity Council
- Institute of Biomedical Engineering
- Stan Cassidy Centre for Rehabilitation
- The Huntsman Marine Science Centre
- Vitalité Health Network

## LOCATION ADVANTAGE. MARKET ACCESS.



## AMONG FREDERICTON BIOTECH COMPANIES:

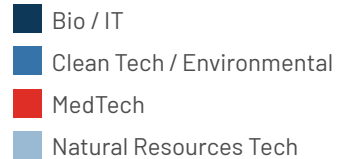
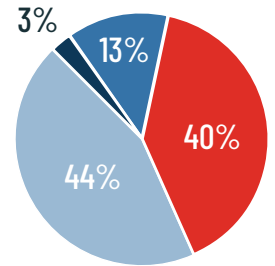


## RESEARCH CHAIRS

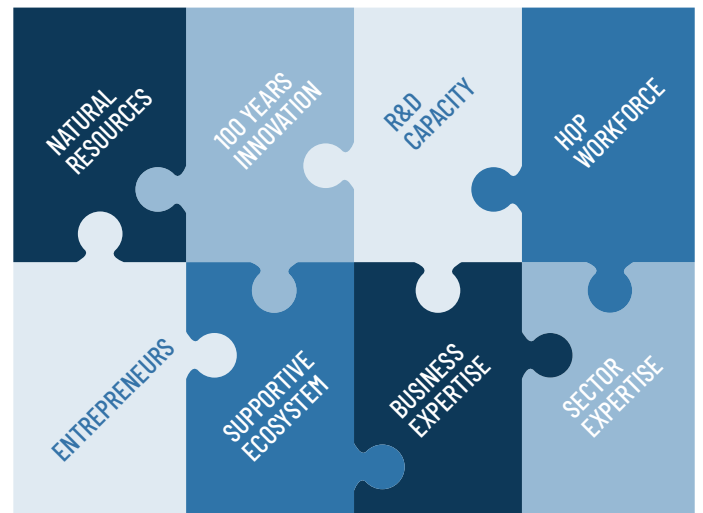
In addition to several biotech-related Research Chairs, examples of ground-breaking UNB bioscience research include, among others:

- Novel aquaculture technologies
- The development of new technologies and their fundamentals for pulp and paper
- Advanced materials research
- World leading myoelectric prosthetics research

## AREAS OF FOCUS FOR BIO COMPANIES



## FREDERICTON, NEW BRUNSWICK. ALL THE PIECES OF THE PUZZLE.



Ignite Fredericton and BioNB foster commercialization opportunities in bioscience with:

- One-stop shop for support and services
- Diverse quality building and facility options
- Help recruiting and training
- Pro bono office space at start-up stage
- Attractive financial incentives and innovation funding
- Supportive aftercare during growth and expansion

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