ALBERTA INNOVATES AT A GLANCE

600
EMPLOYEES

10
LOCATIONS

2
applied research subsidiaries
• InnoTech Alberta
• C-FER Technologies

Annual investment of $286 million, another $80 million in technical support for greenhouse gas emissions reduction projects.

$47.2M
in external contract revenue generated by InnoTech Alberta.

76 PhDs
Highly qualified and skilled personnel at InnoTech Alberta worked with industry, government and small to medium-sized enterprises to enhance company competitiveness and bring new technologies to market.

72
PROGRAMS
in 14 investment portfolios and four business lines

81%
support applied research

72%
contribute to value-generation
OUR STRATEGY ENABLES ARIF OUTCOMES

Alberta Research and Innovation Framework 2030
The Post-Secondary Investment Team works directly with Campus Alberta in providing support programs for research and training conducted by post-secondary institutions and Alberta centres.

- Translating research, discovery and application to incent innovation and support community organizations and commercial opportunities for industry.
- Creating the talent and expertise from which companies, entrepreneurs, government and international businesses can sustain international competitiveness.
- Connecting Alberta and its companies to the global reservoir of leading-edge ideas and approaches in international jurisdictions.
- Training the highly skilled graduates needed to fuel innovation industry, increase the knowledge-based workforce and capacity.
- Provide support for training and development to enable placement and retention in Alberta and provide mentorship, coaching and scholarships to entrepreneurial youth.
POST-SECONDARY INVESTMENTS TEAM:
AREA OF FOCUS – ARIF EMERGING TECHNOLOGIES
AND PLATFORM STRATEGIES

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<tr>
<th>Emerging Technologies</th>
<th>Innovation Target</th>
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<tr>
<td>Green Economy</td>
<td>Support the Cleantech sector to increase Industry sales revenue by 25%, thereby</td>
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<td>increasing Alberta’s global market share by 20%.</td>
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<td>Advanced Manufacturing &amp; Materials</td>
<td>The value of Alberta’s manufacturing sector will increase from $18.8 billion to</td>
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<td>$40 billion through the development of advanced materials, instrumentation, and</td>
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<td>repurposing jobs (2014 base).</td>
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<td>Digital Economy</td>
<td>The ICT industry in Alberta generates more than $30 billion in annual revenues</td>
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<td>and the province is the best in Canada for digital literacy and connectivity.</td>
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<th>Select Focus Areas</th>
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<td>Clean power, renewables, and energy storage</td>
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<tr>
<td>Consumer, industrial, and community waste management and energy efficiency</td>
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<tr>
<td>Water and wastewater</td>
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<td>Robotics, 3-D printing, and fabrication</td>
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<td>New materials from existing resources (e.g., fibre, bitumen), including carbon nanomaterials</td>
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<td>Sensors and MEMS</td>
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<tr>
<td>Materials to reduce environmental impacts, and improve reliability and durability</td>
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<tr>
<td>Data Science analytics, machine learning, artificial intelligence, sensors, IoT 5G sensors</td>
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<td>Privacy and cybersecurity emergency management, secure and safe interoperability</td>
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<td>Advanced and productive ICT solutions in natural resource management (e.g., environmental monitoring, digital oilfield, precision farming, etc.)</td>
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<td>Virtual service delivery and Smart Communities</td>
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EXPERTISE & INFRASTRUCTURE

Applied research into cellulose nanocrystals (CNC) and lignin production and product applications advanced under new Alberta Bio Future programs, aimed at developing these materials into high-value, commercial bioproducts. The programs have strong industry partnerships.

Alberta Machine Intelligence Institute (Amii) and Google DeepMind lab established at University of Alberta – the outcome of longstanding leadership and support from the Post-Secondary Investments Team of Alberta Innovates.

$94.7M ALLOCATED TO AI from EDT to develop and administer Climate Change Innovation and Technology (CCITF) programs. CCITF is being led by the Clean Energy business line.
ALBERTA INNOVATES DIRECTION

Focus on emerging technologies that support multiple sectors
Embrace the digital future
Enhance Alberta’s knowledge workforce

PUBLIC INVESTMENTS IN RESEARCH & INNOVATION NEED TO DELIVER RESULTS

STAKEHOLDER ALIGNMENT AND COLLABORATION IS ESSENTIAL TO DIVERSIFY AND TAP NEW OPPORTUNITIES

CORE TECHNOLOGY INVESTMENT IS TABLESTAKES – DIGITAL TECHNOLOGY IS WHERE GROWTH OPPORTUNITY LIES

2 PwC. “21st CEO Survey: The Anxious Optimist in the Corner Office.” 2018
CORE FOUR TECHNOLOGIES

Data-enabled Innovation
Artificial Intelligence, Machine Learning, AR/VR, cloud computing, data analysis, quantum technologies

Digital Tech for Business Transformation
Visualization, cryptocurrency, cybersecurity, geospatial tech, geomatics, Internet of Things

Clean Tech
Water & climate technologies, emissions reductions, smart grid, cleaner fuels

Innovative Production & Distribution
Advanced materials, robotics, value-added food processing, supply chain innovation, autonomous transportation
CREATIVE COLLISIONS

• INVENTURE$ 2018 - 190 high profile speakers – 80 multi-stream, multi-disciplinary sessions
• 32 startup pitch finalists from 140 worldwide applicants + student pitch
• 16 Connect mini-conferences
• 2,500 attendees – UK, USA, Australia, Mexico, China, Canada, Alberta
• Planning underway for INVENTURE$ 2019 in Calgary: June 5-7