

# Alberta Cleantech Ecosystem Map 2023

## MAP SPONSORS



Prairies Economic Development Canada

Développement économique Canada pour les Prairies



## Section 1: Funding

### Grant Funding, Tax Credits & Challenge Prizes

#### **Alberta Innovates**

Alberta Innovates manages a number of investment programs on behalf of the Government of Alberta.

#### **Alberta Upstream Petroleum Research Funding (AUPRF)**

Oil and gas industry-sponsored research funding.

#### **Branch Out Neurological Foundation**

Provides grants for researchers at universities across Canada pursuing technological solutions for neurological conditions.

#### **Calgary Foundation**

Connects donors and local organizations to give grants.

#### **Canada Foundation for Innovation**

The CFI supports research and innovation at post secondary institutions, hospitals and non-profit organizations.

#### **Canadian Agri-Food Automation and Intelligence Network**

CAAIN funds projects connecting technology and agri-food companies to create solutions that improve competitiveness, growth and jobs.

#### **Canada Infrastructure Bank (CIB)**

Organization looking to invest \$35 billion in revenue-generating infrastructure which benefits Canadians and attracts private capital.

#### **Clean Resources Innovation Network**

Accelerates ground-breaking solutions by establishing industry priorities and connecting innovators and resources.

#### **Climate Innovation Fund hosted by Alberta Ecotrust**

CIFF provides programming in Calgary and Edmonton, taking on a nimble, accelerator role, complementing and advancing the leadership work undertaken by the municipalities.

#### **Emissions Reduction Alberta (ERA)**

ERA accelerates innovation to reduce greenhouse gas emissions in Alberta.

#### **Environment and Climate Change Canada (ECCC)**

Organization that funds development projects like the Low Carbon Economy Fund.

#### **Federal investor tax credit for renewables –**

#### **Fall Economic Statement 2022**

The 2022 Fall Economic Statement proposed a refundable tax credit of 30 percent for clean technology investments made as of the day of Budget 2023, with a phase out starting in 2032, for investments in:

- Electricity Generation Systems
- Stationary Electricity Storage Systems
- Low-Carbon Heat Equipment
- Industrial zero-emission vehicles

#### **Government of Alberta – Small Business Resources**

Supports are available to help Alberta entrepreneurs and small businesses start, grow and succeed.

#### **GreenSTEM**

Provides funding and support for high-tech entrepreneurial development.

#### **Impact Canada Challenge Hub**

A hub for the government's various innovation challenges to create solutions to economic, environmental, and social problems.

#### **Innovation, Science and Economic Development Canada Business grants and financing**

Grants, loans, private and public sector financing and leveraging personal assets.

#### **Innovative Solutions Canada**

Supports innovation by having Federal Government departments define challenges and act as host for pilot deployments.

#### **Knowledge Engagement and Innovation Grant**

Provides grants and supports innovation through collaboration, focused on the public-sphere and providing real-world impact.

#### **NRC Industrial Research Assistance Program (NRC IRAP)**

Provides funding, advice, and connections to help businesses increase their innovation capacity and take ideas to market

#### **Natural Gas Innovation Fund**

Backed by natural gas producers, distributors and utilities, NGIF funds and validates early stage cleantech innovation in the natural gas value chain.

#### **Natural Products Canada**

Helping to connect and support a vibrant ecosystem of expertise, resources, and investment that bolsters commercialization in Canada's natural products industry.

#### **Natural Sciences and Engineering Research Council of Canada**

Funds innovators creating scientific and technological breakthroughs that will benefit Canada.

#### **Next Generation Manufacturing Canada**

NGen brings together advanced manufacturing and technology to drive digital transformation in Canada through challenges, grants and cluster building.

#### **Prairies Economic Development Canada**

Funding and support for businesses and non-profits that advance economic growth and diversity in Alberta, Saskatchewan and Manitoba.

#### **Protein Industries Canada**

PIC works with private sector industry partners to create co-investment projects that have the potential to transform the agriculture and food production sector.

#### **Scientific Research and Experimental Development Tax Incentive Program (SR&ED)**

The Scientific Research and Experimental Development (SR&ED) Program uses tax incentives to encourage Canadian businesses of all sizes and in all sectors to conduct research and development (R&D) in Canada.

#### **Smart, Sustainable, Resilient Infrastructure Association**

SSRIA funds elements of approved building projects that employ innovative GHG reducing technologies OR provides training to upskill the current and future building workforce.

#### **Social Sciences and Humanities Research Council**

Federal research funding agency promoting research and training in humanities and social sciences.

#### **Strategic Innovation Fund**

Grants for large projects and national innovation ecosystems

#### **Strategic Timelines**

Helps Alberta technology companies secure grants and funding opportunities

#### **Sustainable Development Technology Canada**

#### **Clean Tech Fund**

Helps accelerate the development and deployment of globally competitive clean technology solutions through coaching & funding Canadian entrepreneurs.

#### **Uceed**

Group of early stage investment funds for UoC and community based startups.

## Venture Capital

#### **Accelerate Fund**

Alberta focused early stage VC fund that matches Angel investments into a startup. Collaboration between Yaletown Partners & the A100.

#### **Alberta Enterprise**

Connects innovators and entrepreneurs with venture capital firms.

#### **ARC Financial**

Focused on early stage growth focused oil and gas companies and established energy transition teams.

#### **Arctern Ventures**

Focused on climate change and sustainability.

#### **AVAC Group**

Focused on new Canadian agriculture technology companies.

#### **Carrot Ventures**

Carrot sources and vets new technologies, recruits experienced leadership, forms new companies around the tech and talent, and leads the first round of financing.

#### **Chrysalix VC**

VC firm focused on industrial innovation.

#### **Cycle Capital**

VC firm focused on addressing the most pressing economic and environmental challenges of the oil and gas industry.

#### **Enertech Capital**

Focused on technology-enabled solutions or business models comprised of software and or hardware.

#### **EVOK Innovations**

VC firm focused on industrial innovation and clean technology.

#### **Intergen Fund**

Focused on helping already established companies (approx. \$1-5 million in revenue) scale.

#### **McRock Capital**

VC firm focused on dramatically improving the profitability of producing or consuming energy.

#### **Startup TNT**

Community of entrepreneurs, scientists, investors, innovators, and startup supporters that, among other activities, hosts investment summits to raise private funding

#### **Sprout**

VC firm focused on seed-stage technology companies.

#### **The51**

Focused on providing capital for women and gender-diverse founders.

#### **Valhalla Private Capital**

Focused on early stage startups providing investments, training and mentorship.

#### **Venture Capital Catalyst Initiative**

Investing in young, high growth potential companies to develop ideas into marketable products.

## Loans

#### **Alberta Indian Investment Corporation**

Provides Alberta First Nation entrepreneurs loan and equity financing.

#### **Alberta Women Entrepreneurs**

Provides programs and services to women at all stages of business through advising, loans, mentoring, and skills and network development.

#### **ATB Financial**

Offers financing solutions and access to experts and resources to help Alberta businesses start and grow.

#### **Business Development Bank of Canada**

The bank for entrepreneurs. Offers financing, venture capital, growth & transition capital and consulting services.

#### **Futurepreneur**

Provides financing, mentoring and support tools for aspiring business owners aged 18-39.

## Wages and Interns

#### **Alberta Innovates – Commercialization Associates Program**

This program is designed to fund SMEs to employ a commercialization professional, for one year for between \$52-\$105,000/yr.

#### **Alberta Training to Work Programs**

Reimbursements for workplace and 3rd party training of unemployed Albertans.

#### **Brain Create – University of Calgary**

Program for neurotechnology graduate studies where research is dedicated to brain function in geographical, biological and environmental extremes.

#### **Career Launcher – grad internship program**

up to \$15,000 to hire a Canadian post-secondary grad, under 30yrs old, for a 6-12 month internship.

#### **GreenSTEM – fellowship**

2yr fellowship for recent grads of STEM Masters & Phd programs, so they can develop their technologies with emissions reduction potential.

#### **MITACS**

We provide funding for projects – up to 55% – and connect highly trained researchers with the businesses that need them and help guide you through the process.

#### **NRC – Industrial Research Assistance Program**

R&D and Internship funding. Wage subsidy funding for 3 – 12 month internships for young grads.

#### **Parex Resources Innovation Fellowships**

Fellowships providing researchers and students the resources to innovate and solve problems in data science, analytics, cybersecurity, precision medicine and energy.

#### **PURE Program**

Funding for undergraduate students to explore and conduct research opportunities.

#### **Work-Integrated Learning Industry Voucher pilot program**

Fund paid work-integrated learning placements for post-secondary students with employers in with Technology Alberta, Alberta Construction Association, BioAlberta. Working with post-secondary institutions and employers to match students with new work-integrated learning opportunities. The program will also help employers access emerging local talent by providing a grant of up to \$5,000 per student placement, which is matched by the employer.

## Section 2:

## Commercialization

### Accelerators

#### **Campus Alberta Neuroscience**

Collaboration between the Universities of Alberta, Calgary and Lethbridge to improve research and innovation related to brain health through funding and partnerships.

#### **Canadian Environmental Technology Advancement Corporation- WEST**

Supports SMEs engaged in the development and commercialization of new environmental technologies.

#### **Creative Destruction Labs-Rockies**

A seed-stage program at UoC for massively scalable, science-based companies with both a general technology and energy specific stream.

#### **DMZ**

Accelerating tech startups and entrepreneurs with assistance to launch and scale their business.

#### **Edmonton Unlimited**

Edmonton Unlimited supports founders and entrepreneurs as they launch and build innovative products and companies.

#### **Endeavor Canada**

Endeavor Canada will provide homegrown entrepreneurs with access to Canada's established business leaders as well as Endeavor's international community of mentors, investors, and peers.

#### **Energy Innovation to Commercialisation Program (I2CP)**

Focus on decentralized energy in relation to fuel production or procurement, on-site energy generation, energy management tech and energy intensive consumers.

#### **Foresight CAC**

Canada's cleantech accelerator for transformative clean technology startups from launch to scale.

#### **Global Innovation Clusters**

Objectives include connecting SME's with larger firms, increasing industry investments, maximizing IP creation, building connections to support growth and connecting stakeholders.

#### **Innovate Calgary**

Innovate Calgary supports founders and entrepreneurs as they launch and build innovative products and companies.

#### **Integrated Management Platform to Accelerate Clinical Trials**

Helps biomedical startups conduct clinical trials and secure regulatory approvals faster.

#### **League of Innovators**

Acceleration and educational programs for youth entrepreneurs.

#### **MaRS**

Toronto based accelerator for Canadian ventures in the cleantech, fintech, health, and enterprise sectors.

