

## John R. Evans Leaders Fund Backgrounder

### British Columbia

The Canada Foundation for Innovation (CFI) Board of Directors approved a contribution of \$9,834,854 to support 51 infrastructure projects in the province.

Project Title	Maximum CFI Contribution
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#### **Simon Fraser University**

Infrastructure for the Laboratory of Brain Resilience	\$300,000
Unravelling the Heterogeneity of Neurocognitive Aging with Portable and Wearable Technology	\$164,000
Research Space for Complex Social Problems	\$186,568
Laboratory for Advanced Research and Innovation in Modern Distribution Grids	\$100,000
Infrastructure for the Exercise Physiology and Performance Laboratory	\$100,000
Integrated Watershed Sciences Research Laboratory	\$323,906
Machine Learning for Agile Motor Skills	\$125,000
Imaginative Methods Lab: New Methods and Tools for Participatory Futures Literacy and Practices	\$124,948
Infrastructure for Investigating the Molecular Mechanisms Underlying DNA Repair Pathway Choice	\$300,000
Remote Sensing for Investigation of Ecosystem Complexes under Environmental Change	\$185,000
<b>10 projects   projets</b>	<b>\$1,909,422</b>

#### **Thompson Rivers University**

Understanding the Consequences of Urbanization and Climate Change on Terrestrial Wildlife	\$199,760
<b>1 project   projet</b>	<b>\$199,760</b>

#### **University of British Columbia (The)**

Psychology, Health, and Sexuality (PHaSe) Laboratory	\$103,640
Wild Animal Microbiomes & Stress (WAMS)	\$133,230
Tissue Microprocessing Platform: Technologies to Unravel Heterogeneous Interactions in Cancer	\$380,000
Overcoming Therapy Resistance in Leukemia	\$700,000
Computational Sensorimotor Learning Lab	\$102,518
Functional Food Colloids Laboratory	\$147,884

# INNOVATION

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A Toolkit to Ensure EDI during Software Development Processes	\$150,000
Single Cell Analysis of Chromosomal Instability in Cancer using Machine Learning	\$147,374
Advanced RNA Translatome Profiling Facility to Identify Therapeutic Targets and Biomarkers for Prostate Cancer (ART-PC)	\$120,376
Emotionally Intelligent Construction Robots	\$135,485
Advancing Redox Flow Battery Technology and Electrochemical Carbon Capture: A Parallel Development Approach	\$150,000
Identifying Disease Drivers of Lethal Brain Cancer	\$150,000
Microscopy Suite for High-throughput and High-resolution Analysis of Microbe-interfacing Nanomaterials	\$320,000
Advancing DNA-based Nanoswitches using Single Molecule Fluorescence Methods: Towards Precision Detection and Delivery	\$150,000
An Autonomous Robotic Platform for Process Chemical Manufacturing and Development	\$400,000
Preparation and Characterization of Advanced Materials for Optoelectronics	\$146,000
Development of River Survey Capability for Assessment of Fluxes of Sediment and Organic-carbon Across Watersheds	\$110,772
Safe Cooperation and Co-existence for Multi-agent Robotic Systems	\$144,264
Nutrition and Microbiome Precision Health (N&M Precision) Lab	\$150,000
Enhancing Reproductive Population Health Research through Novel Database Development: Building Big Data Infrastructure	\$150,000
Implantable Smart Biomaterials and Sensors	\$136,912
Hardware and Storage for Natural Language Processing Research with Large Language Models	\$116,458
Engineering Solar-driven Industrial Chemical Processes for the Net Zero Economy	\$147,214
Synthesis, Simulation, and Validation of an Advanced Macro-mini Robotic System	\$128,914
Advanced Raman and Optical Imaging Platforms for Agrifood Safety and Sustainability	\$150,000
Multispecies Archaeology Laboratory (MSAL)	\$150,000
Stable isotope laboratory for carbon cycle and climate research	\$400,000
Request for High-resolution, Low-irradiation in Vivo MicroCT Scanner	\$200,000
Developing Laminated Engineered Wood Products using Recycled Wood	\$150,000
Multi-omic Analysis of Treatment Resistance and Cancer Heterogeneity (MATCH)	\$600,000
Immune Suppression-Free Xenotransplantation	\$137,398
Tackling Antibiotic Resistance Generation and Establishing Test Surveillance for TB (TARGETS for TB)	\$320,000
Facility for Neurology Fluid Biomarker Innovation	\$300,000
Establishing the Fire Resilience and Wood Ignition Safety Evaluation (FIREWISE) Laboratory	\$151,422
Computational Social Science at SLIME-Lab	\$27,464

# INNOVATION

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<b>35 projects   projets</b>	<b>\$7,107,325</b>
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## University of the Fraser Valley

Investigation of Luminescence Signals from Minerals for Sediment Tracking	\$63,238
<b>1 project   projet</b>	<b>\$63,238</b>

## University of Victoria

Efficient Computing Equipment for Modeling in Quantum Physics	\$90,800
The Geomorphology and Chronology Research (GCR) Lab: A Facility for Quantifying Glacial Geomorphic Change	\$132,273
Multi-scale Multi-material Additive Manufacturing for Advanced Materials Development	\$290,000
<b>3 projects   projets</b>	<b>\$513,073</b>

## Vancouver Island University

Biomarkers and Treatments to Improve the Care of Brain Injury in Underserved Populations	\$42,036
<b>1 project   projet</b>	<b>\$42,036</b>

### NOTE:

As part of this announcement, an additional \$2,950,456 was awarded under the Infrastructure Operating Fund (IOF), a mechanism that assists institutions with the incremental operating and maintenance costs associated with the new infrastructure.