

Leaders Opportunity Fund / Fonds des leaders Backgrounder / Fiche d'information

Alberta

The Canada Foundation for Innovation (CFI) Board of Directors approved a contribution of \$7,589,794 to support 35 infrastructure projects in the province. / Le conseil d'administration de la Fondation canadienne pour l'innovation (FCI) a approuvé des contributions totalisant 7 589 794 \$ en vue d'appuyer 35 projets d'infrastructure dans la province.

Project Title / Titre du projet	Maximum CFI Contribution / Contribution maximale de la FCI
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University of Alberta

A Slimline Borehole Seismic System for Geophysical Imaging and Monitoring of Induced Seismicity: Applications in Scientific Drilling, Mine Safety, Carbon Sequestration, and Hydrocarbon extraction	\$325,000
Advanced Gene Expression Analysis for Renal and Cardiovascular Research	\$280,000
An Image-Guided Small-Animal Irradiation Facility for Precise Targeted Delivery of X-Rays to Specific Regions of Tumors and Normal Tissues	\$326,241
Analysis of Intracellular Protein Trafficking and Organelle Biogenesis	\$333,017
Application to Establish a Neurovascular Translational Research Laboratory	\$159,855
Aquatic Conservation and Fisheries Management Research Laboratory	\$135,000
Characterization of Shale Gas and Shale Oil Reservoirs	\$120,000
Cognitive and Neural Mechanisms of Language and Working Memory	\$40,000
Deciphering the Molecular Mechanism(s) of mRNA Export	\$180,000
Infrastructure for the Investigation of New Technologies for Traffic and Transportation Applications	\$126,311
Gas Chromatography System for the Analysis of Alcohol and Lipid Biofuels and Biochemicals Produced by Metabolically Engineered Microbial Cells	\$143,105
Infrastructure for Characterization of Shape Memory Polymer Composites and Nano-Composites with Complex Fiber Architectures for Multifunctional Composite Materials Research	\$60,000
Infrastructure for Investigating the Link Between Chronic Oral Inflammation and Systemic Health	\$199,967
Infrastructure for Process, Fabrication and Characterization of Functional Nanomaterials and Devices for Sustainable Energy	\$80,000
Infrastructure to Develop a Clinical Cardiopulmonary Physiology Laboratory to Examine the Cardiovascular Consequences of Chronic Obstructive Pulmonary Disease	\$351,486

.../ University of Alberta

Laboratory Infrastructure Investigating the Antibiotic Resistance of Campylobacter	\$191,749
Laser Illumination, Photo-Bleaching and Nano-Positioning Systems to Facilitate Live-Cell Imaging of Biomolecule Regulation	\$101,141
Low Stress Animal Behavioral Suite for Investigation of Neuropathic Pain and Other Neurological Disease	\$160,553
Protein Quality Control Analysis in Health and Disease	\$390,129
Quantitative High Speed Stereo Video-Fractography System	\$125,000
Smart Power Distribution Grid Laboratory	\$60,000
Stable Isotope Systems and Applications to Earth's Exploration and Environmental Studies	\$399,289
Translational Pathology Unit	\$185,233
Translational Research in Airway Inflammation - Biomarker Identification	\$399,818
Understanding the Multiple Sclerosis Disease Process at the Mind-Molecule Interface	\$350,150
Visualization of Transplant Biology	\$313,199
Whole-Body Mouse Microscope for Imaging Multi-Organ Response to Injury	\$205,575
27 projects / projets	\$5,741,818

University of Calgary

A Biobank for the Molecular Classification of Kidney Disease	\$324,355
A State-of-the-Art Facility for Assessing Environmental Stress and Fish Health	\$331,227
Bioreactor Derived Induced Pluripotent Stem Cells for Diagnostic and Therapeutic Application	\$167,304
Dissecting Chronic Pain and Opioid Analgnesia: From Genes and Cells to Behaving Animals	\$210,000
Integrated Photonics	\$100,000
Knowledge Transfer and Utilization of Evidence-Based Psychosocial Treatments	\$151,363
Laboratory for Novel Vascular Anti-Inflammatory Therapies	\$393,727
The Virtual Team Performance, Innovation, and Collaboration Laboratory	\$170,000
8 projects / projets	\$1,847,976