Province invests in post-secondary research innovation for a stronger B.C.

VICTORIA – The B.C. government is investing nearly $25 million to support 34 post-secondary research projects that will drive innovation and economic growth.

The projects will also help create jobs, protect biodiversity and the environment, and help keep British Columbians healthy and safe.

The funding is awarded through the BC Knowledge Development Fund (BCKDF) and gives students and researchers access to the latest technology, tools and equipment they need to drive research projects forward.

During the past four fiscal years, the BCKDF has awarded more than $154 million to 255 projects.

“We are focused on building a sustainable, inclusive and innovative economy. By investing in research and innovation with our world-class talent and universities leading the way, we will be one step closer to achieving this goal,” said Ravi Kahlon, B.C.’s Minister of Jobs, Economic Recovery and Innovation. “B.C.’s post-secondary schools are making significant advancements through leading-edge research that improves the lives of people and contributes directly to our economic prosperity throughout B.C. The Province is proud to support these incredible initiatives and the people behind them.”

The five recipients are Simon Fraser University (SFU), Thompson Rivers University (TRU), the University of British Columbia’s (UBC) Vancouver campus, the UBC - Okanagan campus and the University of Victoria (UVic). Projects include:

- the advancement of “precision oncology” to help identify therapy most likely to benefit a cancer patient;
- establishing an artificial intelligence engineering laboratory to advance research for clinical applications for dementia and vision sciences;
- determining how natural systems will respond to climate change and improve responses to environmental contamination;
- finding sustainable solutions to protect infrastructure, such as buildings and bridges, against seismic damage; and
- supporting communities in water management through nature-based water reuse.

Through these types of investments, British Columbia can attract and retain world-class talent, develop new jobs and companies, and support the advancement of research and technology in a variety of sectors, such as health and life sciences, information and communication technologies, social sciences and humanities, clean technology and natural resources.
Past recipients of the BCKDF include former UBC professor Carl Hansen, co-founder of AbCellera, which discovered an antibody for treatment against COVID-19, and UBC professor Pieter Cullis, who developed the lipid nanoparticle technology that allows the Pfizer-BioNTech mRNA vaccine to enter human cells.

“The BCKDF plays a crucial role in the modernization of our universities’ research infrastructure capacity and capabilities,” said Anne Kang, B.C.’s Minister of Advanced Education and Skills Training. “By investing in technologically advanced equipment and buildings, B.C. institutions will be well-positioned to develop successful collaborations with industry and other partners.”

The BCKDF enables B.C.’s public post-secondary institutions and affiliated research hospitals to compete for federal and private-sector funding, and matches Government of Canada investments made through the Canada Foundation for Innovation (CFI).

“We are proud to partner with the BCKDF to invest in British Columbia’s teaching and research facilities,” said François-Philippe Champagne, federal Minister of Innovation, Science and Industry. “This partnership is helping B.C. universities rise to the challenges facing Canadians across the country – from combating climate change to conserving our precious water resources, from fighting cancer to maintaining a high quality of life for our growing senior population – all while cultivating the top-notch talent we need to excel on the global stage.”

The BCKDF is a critical building block as the Province develops its economic plan. It will be a key contributor to rebuild and grow the economy by improving B.C.’s productivity and competitiveness. Other benefits include potential commercialization, spinoffs and patents, and discoveries that directly impact the lives of British Columbians in medicine and the management of the environment.

By investing in research projects, the B.C. government is continuing to support post-secondary institutions to build toward a more innovative, sustainable and inclusive future.

Quotes:

Dugan O’Neil, vice-president, research and international, SFU –

“This BCKDF funding will allow SFU's researchers to further strengthen their work in big data and explore new frontiers, collaborations and drive innovation and productivity across the province. It allows for the enhanced development of infrastructure and equipment to better serve and attract researchers and industry.”

Will Garrett-Petts, associate vice-president, research and graduate studies, TRU –

“With a growing reputation as an open access research university, Thompson Rivers University is pleased to have been awarded provincial government funding ensuring that we remain at the forefront of research excellence and innovation. These investments are vital to B.C.’s Interior region, allowing us to attract and retain outstanding researchers, while also providing enhanced training facilities for our students. I extend sincerest congratulations to Dr. Van Hamme (see Backgrounder 2) and his colleagues, whose work is contributing new knowledge and the promise of improved quality of life for the communities we serve.”

Santa J. Ono, president and vice-chancellor, UBC –
“UBC is home to some of the world’s top researchers, and this investment gives them access to cutting-edge scientific infrastructure that will support breakthroughs in fields like health care, clean technology, quantum science and agriculture. Whether it’s developing life-saving new drugs, ensuring literacy for all or creating novel technologies that give B.C. companies a competitive edge, this investment will promote a more healthy, innovative and sustainable society for all British Columbians.”

Lesley Cormack, deputy vice-chancellor and principal, UBC - Okanagan campus –

“I’m thrilled to see this investment supporting cutting-edge innovation and expanding research infrastructure at UBC - Okanagan. Our campus is home to researchers tackling some of today’s most pressing challenges as they work towards finding the complex social, economic, cultural and technical solutions of tomorrow. With the support of the BCKDF, we hope to contribute to a better, safer, sustainable and more just future for the Okanagan, British Columbia and beyond.”

Lisa Kalynchuk, vice-president research and innovation, UVic –

“When we make investments in research, we invest in shared success in British Columbia, Canada and the world. Canada’s research communities need critical funding to build capacity, to bring new discoveries to light and to deliver essential training for tomorrow’s science teams. Today, Canadian researchers are demonstrating in real time just how committed UVic is to meeting United Nations Sustainable Development Goals and making a difference in Canada and around the world.”

Quick Facts:

- The BCKDF has awarded more than $800 million to more than 1,400 projects since the inception of the program in 1998.
- BCKDF funding spans sectors such as health and life sciences, nuclear physics, medicine, genomics, biotechnologies, clean tech, agrifoods, energy and mines, environment and climate change and forestry.
- The funding allocation is generally up to 40% from the BCKDF, up to 40% from the CFI and 20% from other contributors.

Learn More:

To learn more about the BC Knowledge Development Fund, visit: https://www2.gov.bc.ca/gov/content/governments/technology-innovation/bckdf

To learn more about the Canada Foundation for Innovation, visit: https://www.innovation.ca/

To learn more about research at Simon Fraser University, visit: http://www.sfu.ca/research-at-sfu

To learn more about the Thompson Rivers University research department, visit: https://www.tru.ca/research.html

To learn more about the University of British Columbia research department, visit: https://research.ubc.ca/
To learn more about the University of British Columbia-Okanagan research department, visit: https://ok.ubc.ca/research/

To learn more about research at the University of Victoria, visit: https://www.uvic.ca/research/index.php

Five backgrounders follow.

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The BC Knowledge Development Fund (BCKDF) has awarded $842,779 to invest in research infrastructure for four projects at Simon Fraser University.

The BCKDF shares project funding with other funding partners, including the Canada Foundation for Innovation. These investments help ensure Simon Fraser University will have the state-of-the-art scientific equipment and infrastructure to be well-positioned to lead B.C. into the future.

Information and communication technologies and wireless:

Artificial Intelligence (AI) Engineering and Visualization Laboratory

Mirza Faisal Beg, a professor in the School of Engineering Science, is establishing an artificial intelligence engineering laboratory for advancing research in precision medicine, medical imaging and multimedia processing. The state-of-the-art infrastructure will enable the design of new algorithms that can process and analyze data valuable for clinical applications, such as dementia research, vision sciences and ophthalmology, cancer imaging and cloud-based analytics. The lab will also transfer knowledge and technology to others, including Canadian biomedical companies, multimedia companies, research organizations and pharmaceutical companies.

Researcher: Mirza Faisal Beg
BCKDF award: $200,000

Data visualization

Sheelagh Carpendale, a professor in the School of Computing Science and Canada research chair in Information Visualization, is researching new ways to visualize and understand data through her innovative approach to people-centred design of visualizations. In B.C.’s data-driven economy, her research will help empower people by developing comprehensible and inclusive technologies that have the potential to bring many societal and economic benefits to B.C. Carpendale’s research has impactful implications for Canadians, as data-driven technologies affect people’s everyday lives in homes, work, classrooms and health care. The BCKDF grant will support the latest in display and interactive equipment to support the very latest in data visualization research.

Researcher: Sheelagh Carpendale
BCKDF award: $150,000

Human-centred autonomous agents through data collection and generation
Mo Chen and Manolis Savva, assistant professors in the School of Computing Science, are researching how to improve virtual simulations of everyday scenarios and developing artificial intelligence systems that can more efficiently and safely collect larger volumes of data. They hope to address data bottlenecks and enable higher-quality and higher-quantity data collection, leading to a self-sustaining cycle of improved data collection and generation. The research can be applied to a variety of applications, including autonomous cars, service robots and virtual assistants, that assist people in their daily lives.

Researchers: Mo Chen and Manolis Savva
BCKDF award: $300,000

**Next-Generation Smart Building**

Yasutaka Furukawa, professor in the School of Computing Science, is looking at smart building technology and ways to include people as an integral part of the building system. This will involve unique interdisciplinary research across computer vision, motion sensing and wireless networking. Through his research, he hopes to facilitate a new computational platform that can support the fast-growing startup ecosystem in B.C. and provide business opportunities ranging from smart-building operations to autonomous robots that need intelligent infrastructure support.

Researcher: Yasutaka Furukawa
BCKDF award: $192,779

**Learn More:**

For more information on the School of Engineering Science, visit: [https://www.sfu.ca/engineering/home.html](https://www.sfu.ca/engineering/home.html)

For more information on the School of Computing Science, visit: [https://www.sfu.ca/computing.html](https://www.sfu.ca/computing.html)

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Connect with the Province of B.C. at: news.gov.bc.ca/connect
Thompson Rivers University: BCKDF research project

The BC Knowledge Development Fund (BCKDF) has awarded $848,500 to invest in research infrastructure for one project at Thompson Rivers University (TRU).

The BCKDF shares project funding with other funding partners, including the Canada Foundation for Innovation. This investment helps ensure the university will have the state-of-the-art equipment and infrastructure to be well-positioned to lead B.C. into the future.

Natural resources:

The TRUbI/O Network – a hub for genomics and bioinformatics innovation in the Interior

The funding from the Province helps establish world-class genomic and molecular biology research facilities at TRU that will advance understanding of plant genome evolution, microbial ecology, environmental remediation and agricultural systems and products. This research will help TRU understand how natural systems will respond to climate change, improve responses to environmental contamination and address issues of food security in the future.

Researcher: Jonathan Van Hamme, professor of microbiology
BCKDF award: $848,500

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University of British Columbia: BCKDF research projects

The BC Knowledge Development Fund (BCKDF) has awarded $22,107,638 to invest in research infrastructure for 24 projects at the UBC-Vancouver campus.

The BCKDF shares project funding with other funding partners, including the Canada Foundation for Innovation. These investments help ensure UBC will have the state-of-the-art scientific equipment and infrastructure to be well-positioned to lead B.C. into the future.

Advanced materials and clean technology:

**AM+: Mobilizing Additive Manufacturing for Automotive, Aerospace and Clean Energy**

This funding will provide specialized technologies to establish a first-in-Canada research cluster focused on additive manufacturing (3D printing) within UBC’s Advanced Materials and Process Engineering Laboratory. The research will promote the adoption of additive manufacturing by addressing quality, cost and scale challenges. It will help ensure B.C. is globally competitive in advanced manufacturing and mobilize additive manufacturing to support B.C.’s aerospace, clean technology and automotive sectors.

Principal investigator: Warren Poole, Department of Materials Engineering
BCKDF award: $3,001,460

**Building a Future for Canadian Neutron Scattering**

This funding supports a national project to build a neutron beam lab that will enable research and innovation in areas such as clean energy technology, information technology and biomaterials for understanding and combating disease.

Principal investigator: Alannah Hallas, Department of Physics and Astronomy
BCKDF award: $700,000

**Momentum resolved electron pair spectroscopy (2e-ARPES)**

This funding will be used to develop a first-of-its-kind system at UBC’s Stewart Blusson Quantum Matter Institute that will study the physics of quantum materials with broad impacts across a range of fields including medicine, transportation and renewable energy. This new infrastructure will strengthen B.C.’s position as a leader in the study of quantum materials and devices, quantum computing and quantum communications, and help anchor new industries arising out of the study of quantum materials in B.C.

Principal investigators: Andrea Damascelli and David Jones, Department of Physics and Astronomy
BCKDF award: $2,628,802

**Used-Water to Resources (U-WatR)**

This funding will support the development of innovative wastewater treatment systems that are more efficient, sustainable and enable the recovery of high-value bioproducts that can be used for energy and fertilizer production. The research will position B.C., as well as industry partners, as a global leader in wastewater resource recovery and sustainability.

Principal investigator: Pierre Berube, Department of Civil Engineering

BCKDF award: $1,591,394

**Astrophysics and computer science:**

**Enabling gravitational wave astrophysics with calibration, monitoring and characterization of the LIGO detectors**

The funding will provide critical infrastructure to support an international collaboration of scientists using kilometre-scale detectors to measure gravitational waves — tiny ripples in the fabric of spacetime emitted by accelerating mass. The infrastructure will help ensure British Columbia is at the forefront of this new scientific frontier that will propel science forward across many fields, including stellar astronomy, astrophysics, nuclear physics, general relativity, high energy physics and cosmology.

Principal investigator: Jess McIver, Department of Physics and Astronomy

BCKDF award: $220,000

**HAICU: Hydrogen Antihydrogen Infrastructure at Canadian Universities for Quantum Innovations in Antimatter Science**

The funding will build state-of-the-art research infrastructure that uses newly emerging quantum techniques to study the properties of antimatter and address key questions about the origins of the universe. The research will advance B.C.’s leadership in quantum innovation and support the development of new technologies in the fields of cryogenics, lasers, microwaves, photon detectors and particle manipulators that will be leveraged by B.C. companies and help grow the B.C. economy.

Principal investigator: Takamasa Momose, Department of Chemistry

BCKDF award: $3,279,274

**VELOSIY: Bringing the Benefits of VLSI to System Software**

By supporting the purchase of advanced computing infrastructure, this funding will advance the study and development of next-generation software, operating systems, hardware platforms and secure IT infrastructure. The infrastructure will help train students on emerging software and technologies and advance research to support B.C.’s growing high-tech sector.

Principal investigator: Margo Seltzer, Department of Computer Science

BCKDF award: $453,594

**Land, natural resources and the environment:**
Field and laboratory characterization of the climate and landscape response to surface elevation change

This funding will acquire field and laboratory equipment to study climate and landscape change through time. The research will investigate rock and mineral compositions to determine how the formation of mountains changes the regional climate and environment.

Principal investigator: Joel Saylor, Department of Earth, Oceans and Atmospheric Sciences
BCKDF award: $125,000

forWATER AID: Advanced Infrastructure Development for Forested Drinking Water Source

This funding will establish watershed observatories that will investigate how forest management practices affect the treatability of drinking water drawn from forested areas. This will allow researchers to identify threats to B.C.’s water supplies and develop forest management-based technologies to ensure B.C. drinking water security now and in the future.

Principal investigator: Mark Johnson, Institute for Resources, Environment and Sustainability
BCKDF award: $180,000

Rapid Air Improvement Network (RAIN)

This funding will be used to deploy advanced sensors and measurement systems to study the health and climate impacts of air emissions in B.C. By integrating with UBC’s Campus as a Living Lab, the research will study interventions and mitigation measures that improve air quality and scale beyond the UBC campus to promote clean air and a healthy environment throughout B.C.

Principal investigators: Steven Rogak and Naomi Zimmerman, Department of Mechanical Engineering
BCKDF award: $2,028,080

Working to Restore Connectivity and Sustainability (WoRCS) Research Program

This funding will support the study of agricultural diversification practices by providing researchers with advanced infrastructure for molecular genetics, telemetry, remote-sensing and geo-spatial analyses. By working with community partners and 30 farm sites in the Fraser Valley to study the impacts of diversification practices, the WoRCS program will provide timely information on practices and policies that improve farmland sustainability and conserve biodiversity in B.C.

Principal investigator: Claire Kremen, Institute for Resources, Environment and Sustainability
BCKDF award: $400,000

Health and life sciences:

Cancer single cell dynamics observatory

The funding will accelerate cancer research by providing researchers with specialized technology that analyses the genomes of single cells. This will advance the development of “precision oncology,” which uses the genomes of the patient and tumour to inform the choice of therapy that is most likely to benefit the patient. The research will provide insight into how cancer changes over time and factors that cause treatment resistance, leading to improved
diagnostics and therapeutics for cancer patients in British Columbia.

Principal investigator: Samuel Aparicio, Department of Pathology and Laboratory Medicine
BCKDF award: $2,396,810

**Complex human-based organ (disease) models for basic and preclinical research with a focus on human epithelia**

The funding will support the development of advanced models of human tissues, such as skin, the lung and liver. The models will enable researchers to advance the study of human diseases and facilitate the development of safe and effective new drugs.

Principal investigator: Sarah Hedtrich, Faculty of Pharmaceutical Sciences
BCKDF award: $101,408

**Data Science for Neurological Disorders Laboratory**

The funding will help establish the Data Science for Neurological Disorders Laboratory at UBC, which will utilize cutting-edge computing infrastructure to support the discovery of personalized approaches for the prevention and management of neurological diseases.

Principal investigator: Jacquelyn Cragg, Faculty of Pharmaceutical Science
BCKDF award: $125,000

**Deciphering DNA-encoded gene-regulatory logic with genome-scale synthetic DNA**

The funding will be used to shed light on the complex genetic underpinnings behind common inherited diseases affecting British Columbians, such as autoimmunity and heart disease, which will pave the way for the development of cellular therapies and targeted treatments for patients.

Principal investigator: Carl de Boer, School of Biomedical Engineering
BCKDF award: $125,000

**DNA event recording technologies to decipher high-resolution dynamics of molecules and cells in mammalian development**

The funding will support the development of new genetic circuit devices that will advance understanding of complex biological systems and enable the development of innovative cell-based therapies for cancer and cardiovascular diseases.

Principal investigator: Nozomu Yachie, School of Biomedical Engineering
BCKDF award: $400,000

**Enabling Precision Health in COPD**

The funding will help uncover better ways to treat chronic obstructive pulmonary disease (COPD) patients using new molecular and imaging technologies. The research will support the development of innovative precision therapies that have the potential to improve the lives and enhance the health outcomes of millions of Canadians with COPD.

Principal investigator: Don Sin, Department of Medicine
BCKDF award: $185,935

**Laboratory for Human-Animal Interaction and Companion Animal Welfare**

The funding will help establish a state-of-the-art observation laboratory at UBC that will study the relationship between people and companion animals. By generating new discoveries in human-animal interactions, the laboratory will help transform the companion animal industry and promote animal welfare.

Principal Investigator: Alexandra Protopopova, Faculty of Land and Food Systems

BCKDF award: $125,000

**Investigating How Mitochondrial Stress Signaling Maintains Organelle Homeostasis in Health and Disease**

The funding will be used to study the role that mitochondrial damage plays in neurodegenerative diseases, such as Parkinson’s and Alzheimer’s. The research will help uncover mechanisms to prevent this damage and develop new therapeutics to fight these otherwise incurable diseases.

Principal investigator: Hilla Weidberg, Department of Cellular and Physiological Sciences

BCKDF award: $125,000

**Investigating the neurophysiological effects and accumulation of subconcussive sports head impacts**

The funding will provide researchers with state-of-the-art sensory equipment that will be used to uncover how the brain is affected by mild head impacts during contact sports. The technology will put B.C. at the forefront of brain injury detection and management, and help local companies design better protective sports equipment.

Principal investigator: Lyndia Wu, Department of Mechanical Engineering

BCKDF award: $125,000

**MiDAS Microbial Diversity Expansion for Applied Sciences**

The funding supports the development of new technologies that will expand the use of yeast for bioprocessing applications that benefit the environment, economy and health of British Columbians. These applications include the food and beverage industry (e.g., wine, beer and dough), removal of pollutants from the environment and the production of non-animal proteins, enzymes and new medicines.

Principal investigators: Thibault Mayor, Department of Biochemistry and Molecular Biology, and Vivien Measday, Wine Research Centre

BCKDF award: $3,276,459

**Plant-pollinator and global change lab**

The funding will help deepen the understanding of the threats facing wild bees and the extent to which these threats can be mitigated through changing land use practices. The knowledge gained will help protect critical pollinators that support healthy ecosystems and many of B.C.’s most important crops.
**Principal investigator: Risa Sargent, Faculty of Land and Food Systems**  
**BCKDF award: $123,454**

**Reactor for Atmospheric Transformations (ReACTr) to track the fate of outdoor and indoor air molecules**

The funding will provide researchers with measurement equipment for the study of key particles in the air British Columbians breathe, such as those emitted by boreal forests, personal care products, mining activity and coastal marine life, and the impact these compounds have on air pollution and human health.

**Principal investigator: Nadine Borduas-Dedekind, Department of Chemistry**  
**BCKDF award: $191,000**

**Social Sciences / Humanities**

**Ensuring Full Literacy in a Multicultural and Digital World**

This funding will deploy advanced technologies, such as eyetracking, electroencephalogram (EEGs) and deep-learning systems, to study how to advance full literacy for all British Columbians and Canadians. By identifying factors that improve spoken language and reading skills, the research will support the development of literacy materials and technological platforms that are better tailored to learners of different ages and from different backgrounds.

**Principal investigator: Janet Werker, Department of Psychology**  
**BCKDF award: $199,968**

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University of British Columbia – Okanagan: BCKDF research projects

The BC Knowledge Development Fund (BCKDF) has awarded $330,166 to invest in research infrastructure for two projects at the UBC-Okanagan campus.

The BCKDF shares project funding with other funding partners, including the Canada Foundation for Innovation. These investments help ensure UBC-Okanagan will have the state-of-the-art equipment and infrastructure to be well-positioned to lead B.C. into the future.

Social sciences and humanities:

(Re)Media infrastructure for multimedia research and creation

Cultural memory studies focus on what and how societies remember across disciplines and perspectives. The (Re)Media Research Infrastructure is home to an integrated research and creation program that studies the shared role of media and embodied experience in cultural memory. This program requires both scholarship and creative outputs, and so a range of digital and non-digital technologies support collaborative, multi-site, multi-media investigations into Canadian and European cultural memory. Outcomes may include advanced research and creative technologies, multimedia performance and preservation of Canadian history.

Researcher: Emily Murphy
BCKDF award: $122,166

Infrastructure and transportation:

Mega-Scale Multi-Dimensional Experimental Facility for Enhancing Canada's Infrastructure Resilience

With civic infrastructure continuing to age and the catastrophic potential implications of a large-scale seismic event looming large, UBC - Okanagan’s Applied Laboratory for Advanced Materials and Structures has a critical role to play in upgrading and protecting shared resources. The funding will support new equipment and facility upgrades to enable large-scale and multi-dimensional structural testing. This expanded capacity will help find sustainable solutions to protect new and aging civil infrastructure against seismic damage. In partnership with industry, the research program will make progress towards designing innovative, low-cost and reliable self-centering structural systems that can be built rapidly and can be maintained and replaced at lower costs.

Researcher: Shahria Alam
BCKDF award: $208,000
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Connect with the Province of B.C. at: news.gov.bc.ca/connect
University of Victoria – BCKDF research projects

The BC Knowledge Development Fund (BCKDF) has awarded $535,000 to invest in research infrastructure for three projects at the University of Victoria.

The BCKDF shares project funding with other funding partners, including the Canada Foundation for Innovation. These investments help ensure the University of Victoria will have the state-of-the-art equipment and infrastructure to be well-positioned to lead B.C. into the future.

Health and life sciences:

Advanced functional materials laboratory

Materials scientist Makhsud Saidaminov, Canada research chair in advanced functional materials, is uniting chemistry and physics to address urgent global challenges from solar energy efficiency to better X-ray devices. Saidaminov’s research uses novel materials chemistry and engineering techniques, including the development of artificial intelligence to discover new materials for solar energy technologies without using toxic heavy metals. Saidaminov wants to develop solar energy technologies cheaper and safer to produce and more efficient at energy harvesting.

Researcher: Makhsud Saidaminov  
BCKDF award: $210,000

Investigating signaling pathways and molecular mechanisms that co-ordinate metabolism, reproduction and longevity

Nicole Templeman aims to better understand how to delay and slow the progression of age-related deterioration. Aging is characterized by cellular deterioration that underlies a myriad of changes, and old age is the greatest risk factor for many diseases. Templeman, Canada research chair in cell biology, is investigating signalling pathways and molecular mechanisms that are involved in co-ordinating metabolism, reproduction and longevity.

Researcher: Nicole Templeman  
BCKDF award: $175,000

Natural resources:

Community Water Innovation Lab Infrastructure

Kristian Dubrawski, Canada research chair in water sustainability for Indigenous and rural communities, aims to support communities in learning, engaging and acting to use nature-
based solutions for water (e.g., conservation, restoration and blue/green infrastructure) to support both ecological and human health. His research includes eco-technologies for nature-based water reuse, water-quality monitoring and supporting communities in water management.

Researcher: Kristian Dubrawski
BCKDF award: $150,000

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