

Interior University Research Coalition

**CORE STRENGTH FOR AN
INNOVATIVE BRITISH COLUMBIA**



Research Assets / Infrastructure Inventory

Updated January 2022

BC INTERIOR UNIVERSITY RESEARCH COALITION

Research Assets / Infrastructure Inventory

Overview:

The British Columbia Interior University Research Coalition (IURC) is a partnership involving the University of Northern British Columbia (UNBC) in Prince George, Thompson Rivers University (TRU) in Kamloops, and the Okanagan campus of the University of British Columbia (UBCO).

The partnership is based on the view that these three campuses, because of their size and their proximity as research ‘neighbours’ in the BC Interior, can, by working together, achieve more and provide greater benefits to the region, the province and beyond.

At the heart of this coalition is a shared commitment to participating in partnerships that focus on:

- Fostering research excellence, knowledge and innovation;
- Harmonizing resources;
- Enhancing academic opportunities; and
- Increasing benefits for communities throughout the BC Interior.

This document highlights an inventory of research assets and infrastructure at and connected to UNBC, TRU and UBCO, with emphasis on four key themes where each of the three institutions have demonstrated research strength that can be strategically combined for greater impact:

Environment, Biodiversity, Ecological Resilience & Recovery, Natural Resource Management	Rural and Community Health & Wellness, Health & Wellness Promotion and Assessment	Community and Regional Socioeconomic Development, Engagement, Planning, Management and Infrastructure	First Nations / Indigenous Studies and Aboriginal Understanding

IURC Profile:

The IURC partners – UNBC, TRU and UBCO – collectively form a core of research and innovation talent and infrastructure in the BC Interior. This core, surrounded by and connected to industries, communities and other stakeholders throughout the province, is central to the Interior's innovation ecosystem.



***The BC
Interior's
Innovation
Backbone***

***Combined
regional
economic
impact:***

**Over \$3.5
Billion**

Place, People & Reach: Regional Centres for Talent Development & Research Excellence

<p>UNBC UNIVERSITY OF NORTHERN BRITISH COLUMBIA</p> <p>~4250 students, ~218 faculty, ~476 staff</p> <p>Prince George main campus, 5 sites across northern BC</p>	<p>THOMPSON RIVERS UNIVERSITY</p> <p>~20,000+ students on campus and online</p> <p>~425 faculty, ~1650 staff</p> <p>Kamloops main campus, 9 sites across south-central BC</p>	<p>UBC THE UNIVERSITY OF BRITISH COLUMBIA Okanagan Campus</p> <p>~11,562 students, ~709 faculty, 1907 staff</p> <p>Part of the UBC system with Vancouver campus</p>
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The Value of Regionally Responsive Research Partnerships

“ *We have to have more multi-institutional, multi-university partnerships. As research universities, we all strive to be the best at everything, but we are not going to be able to do it. The more we compete against each other versus collaborate with each other, the more difficult it becomes to solve really wicked societal problems, such as hunger, poverty and health issues.*

We also need to engage with our community and partners to create both social and economic value at the same time. It is not enough that our research has the potential to save lives, improve our society or even help our planet. The public also expects that our research... connects with their lives and they want to be actively included in the planning, execution, analysis and benefit of the research they participate in.

”

- Brian Herman, Ph.D., University of Minnesota, VP Research

“ *External research partners offer governments unique benefits. By leveraging both internal and external resources, these partnerships can more effectively and efficiently meet the demand for quality research.*

External partners give governments unbiased and politically neutral research results that are independent of the state's policy environment.

They can add to (and complement existing) analytic capacity. They integrate both policy and academic approaches to analysis and problem solving. And they can provide needed specialized expertise to support government policy.

”

- From Venessa A. Keesler Michigan Department of Education

IURC RESEARCH ASSETS AND INFRASTRUCTURE

THEME: Environment, Biodiversity, Ecological Resilience & Recovery, Natural Resource Management

Programs:

UNBC Masters in Natural Resources & Environmental Studies

<https://www.unbc.ca/nres-graduate-program>

<https://www.unbc.ca/nres-graduate-program/faculty>

TRU Masters of Science in Environmental Science (MScES):

<https://www.tru.ca/science/programs/msces/faculty.html>

TRU Masters in Environmental Economics and Management:

<https://www.tru.ca/business/eem.html>

UBCO Graduate Studies Programs:

<http://gradstudies.ok.ubc.ca/prospective/grad-programs.html>

UBCO Bachelor of Sustainability Program:

<https://sustainability.ok.ubc.ca>

Research Chairs:

Bryan, Heather: Ian McTaggart Cowan Muskwa-Kechika Research Professor

<https://www2.unbc.ca/people/bryan-heather>

Dawson, Russell: 2005 Canada Research Chair in Avian Ecology

<http://web.unbc.ca/~dawsonr/russ.htm>

Dery, Stephen: Canada Research Chair in Northern Hydrometeorology and NSERC/Rio Tinto Industrial Research Chair in Climate Change and Water Security <http://web.unbc.ca/~sdery/>

Elkin, Che: Forest Renewal BC/Slocan Mixed wood Ecology Chair, Integrated Forest Decisions Lab <https://www.unbc.ca/che-elkin>

Eskicioglu, Cigdem: NSERC Senior Industrial Research Chair in Advanced Resource Recovery from Wastewater <https://engineering.ok.ubc.ca/about/contact/cigdem-eskicioglu/>

Flanigan, Mike: BC Regional Innovation Chair in Predictive Services, Emergency Management and Fire Science <https://www.canadawildfire.org>

Ford, Adam: Canada Research Chair, Wildlife Restoration Ecology <http://atford.weebly.com>

Fraser, Lauchlan: 2004-2014 Canada Research Chair in Community and Ecosystem and NSERC Industrial Research Chair in Ecosystem Reclamation
<https://lfraserlab.wordpress.com>

Harvey, Jill: Canada Research Chair in Fire Ecology

Hewage, Kasun: FortisBC Smart Energy Chair
<https://engineering.ok.ubc.ca/about/contact/kasun-hewage/>

Hodges, Karen: Bert Brink Canada Research Chair in Conservation Biology
<http://biol.ok.ubc.ca/faculty/hodges.html>

Huber, Dezene: 2005 Canada Research Chair in Forest Insects & Chemical Ecology
http://web.unbc.ca/~huber/Huber_Lab/Research_%26_Links.html

Janmaat, John: BC Regional Innovation Chair, Water Resources and Ecosystem Sustainability
<http://econ.ok.ubc.ca/faculty/janmaat.html>

Klironomos, John: 2003 Canada Research Chair and Royal Society of Canada Fellow, Microbial Biology, Plant and Soil Ecology, Fellow of the American Association for the Advancement of Science <http://johnklironomos.com>

Larsen, Karl: Northcote and Brink Professorship in Ecology <http://karllarsen.sites.tru.ca>

Menounos, Brian: Canada Research Chair in Glacial Change
http://couplet2.unbc.ca/?page_id=100

Murch, Susan: 2005-2015 Canada Research Chair in Natural Products Chemistry
<http://chem.ok.ubc.ca/faculty/murch.html>

Nec, Yana: Canada Research Chair, Applied Mathematics and Optimization in the Natural Environment <http://kamino.tru.ca/experts/home/main/bio.html?id=ynec>

Neimanis, Astrida: Canada Research Chair in Feminist Environmental Humanities
<https://fccs.ok.ubc.ca/about/contact/astrida-neimanis/>

Owens, Phil: Forest Renewal BC Endowed Research Chair in Landscape Ecology
<https://www.unbc.ca/owens/research>

Parker, Katherine: Muskwa-Kechika Research Chair in Wildlife Ecology and Nutrition
<http://web.unbc.ca/~parker>

Parkes, Margo: Canada Research Chair in Health, Ecosystems, and Society
<http://www.unbc.ca/parkes>

Pearce, Tristan: Canada Research Chair in Cumulative Impacts of Environmental Change
<https://www.envchange.com>

Pelletier, Nathan: Endowed Chair in Bio-economy Sustainability Management and the NSERC/Egg Farmers of Canada, Industrial Research Chair in Sustainability
<https://prismlab.weebly.com/dr-nathan-pelletier.html>

Petticrew, Ellen: Forest Renewal BC Endowed Research Chair in Landscape Ecology
<https://www.unbc.ca/ellen-petticrew/research>

Reudink, Matt: Northcote & Brink Professorship in Behavioural Ecology
<https://www.mattreudink.com>

Ross Friedman, Cynthia: Royal Society of Canada College of New Scholars, Scientists and Artists member in forest and urban ecology <http://faculty.tru.ca/cross/>

Scott, David: Forest Renewal BC Endowed Chair in Watershed Management
<http://eegs.ok.ubc.ca/faculty/scott.html>

Tang, Youmin: Canada Research Chair in Climate Prediction & Predictability
<http://web.unbc.ca/~ytang/>

Venter, Oscar: Forest Renewal BC/ West Fraser Growth and Yield Chair, Integrated Forest Decisions Lab <http://oscarventer.net/research/>

Wei, Adam: Forest Renewal BC Endowed Chair in Watershed Management
<http://eegs.ok.ubc.ca/faculty/adamwei.html>

Wright, Pamela: Wilberforce Fellowship in Conservation Science:
<https://www.unbc.ca/pamela-wright>



Dr. Lauchlan Fraser, 2004-2014 Canada Research Chair in Community and Ecosystem Ecology and NSERC Industrial Research Chair in Ecosystem Reclamation

Institutes and Centres:

Alliance for Mountain Environments: <http://mountainalliance.ca>

Atmospheric Science Research Group:
<http://cirrus.unbc.ca/atmos-old/index.php?pagename=People>

Biodiversity, Resilience & Ecosystem Services: <http://braes.ok.ubc.ca>

Bioreactor Technology Group: <http://bioreactortechgroup.ok.ubc.ca>

Centre for Environmental Assessment Research: <https://ok-cear.sites.olt.ubc.ca>

Centre for Optimization and Decision Science: <https://www.tru.ca/science/research/cods.html>

Centre for Optimization, Convex and Nonsmooth Analysis: <https://ocana.ok.ubc.ca/index.php>

Community and Ecosystem Ecology Centre/Centre for Ecosystem Reclamation:
<https://lfraserlab.wordpress.com> <http://kamino.tru.ca/experts/home/main/bio.html?id=lfraser>

Cumulative Impacts Research Consortium: <https://www.unbc.ca/cumulative-impacts>

Natural Resources & Environmental Studies Institute: <https://www.unbc.ca/nres-institute>

Pacific Institute for Climate Solutions: <http://www.pics.uvic.ca>

Quesnel River Research Centre: <https://www.unbc.ca/quesnel-river-research-centre>

Soil Microbiology Research Group:
http://soilmicrobialecolgy.ok.ubc.ca/Group_Site/Faculty/Faculty.html

Structural Geology and Techtronics Research Group: <https://ubcotectonics.weebly.com>



The UBC Bioreactor Technology Group collaborates with government agencies, municipalities, industries, and researchers within UBC and other institutions with an ultimate goal of waste reduction and resource recovery.

Labs and Facilities:

Aleza Lake Research Forest: <http://alrf.unbc.ca>

Atmospheric Science Facilities:

<http://cirrus.unbc.ca/atmos-old/index.php?pagename=Facilities>

Biological Solutions Research Lab: <http://www.biosolutions.ubc.ca>

Complex Environmental Systems Lab:

<http://complexity.ok.ubc.ca/people/parrott/> <http://braes.ok.ubc.ca/research/>

Ecological and Conservation Genomics Laboratory: <https://people.ok.ubc.ca/mirussel/index.html>

Environmental Disturbance Assessment Research Lab: <http://web.unbc.ca/~dawsonr/russ.htm>

Fipke Lab for Trace Elements Research (FiLTER): <http://ikbsas.ok.ubc.ca/research/filter.html>

Food Systems PRISM Lab: <https://prismlab.weebly.com/research.html>

Forest and Mycorrhiza Ecology & Ecophysiology Research Group:

<http://biol.ok.ubc.ca/research/fame.html>

Genetics Lab: <https://www.unbc.ca/genetics>

GIS & Remote Sensing Lab with Doppler SODAR: <http://gis.unbc.ca>

High-Performance Computing Lab: <http://web.unbc.ca/hpc/>

High Throughput Genomics Sequencing Lab

<https://inside.tru.ca/2017/02/28/high-throughput-sequencing-lab-at-tru-a-first-for-bc-interior/>

I.K. Barber Enhanced Forestry Lab: <https://www.unbc.ca/enhanced-forestry-lab>

Insect Physiology and Biochemistry Lab: <https://markrheault.weebly.com/research.html>

John Prince Research Forest: <http://researchforest.unbc.ca/jprf/jprf.htm>

Microanalytics Laboratory: <https://ubcotectonics.weebly.com/facilities.html>

Molecular & Population Genetics Lab: <http://web.unbc.ca/~dawsonr/russ.htm>

Northern Analytical Laboratory Services:

<https://www.unbc.ca/northern-analytical-lab-service/equipment-and-services#lab-equipment>

Northern BC Archives: <http://unbc.arcabc.ca/collections/northern-bc-digital-collection>

Paleoecology Lab: <http://www.paleolab.ca/paleo.html>

Plant Growth Facility: <https://research.ok.ubc.ca/2020/10/26/plant-growth-facility/>

Quesnel River Research Centre:

<https://www.unbc.ca/quesnel-river-research-centre/qrrc-facilities-and-equipment>

Tree Ring Lab: <https://www.unbc.ca/dendro-lab/facilities>

Facility for Environmental and Biological Imaging: <http://febi.ok.ubc.ca>

Scanning-Electron Microscopy (SEM) Lab: <http://semlab.ok.ubc.ca>

Single Molecule Mechano-Biology Lab: <https://people.ok.ubc.ca/isaaccli/research.html>

Wells Gray Education & Research Station:

https://www.tru.ca/science/programs/biology/wells_gray.html

Wildlife Restoration Ecology (WiRE) Lab: <http://atford.weebly.com/research.html>



The Quesnel River Research Centre acts as a hub of activity for a wide range of scholars who are seeking to improve understanding of topics relating to (and including human interactions with) the natural environment. The Centre was established in 2002 as western Canada's only field station focused on the highly interdisciplinary domain of landscape ecology, funded by a generous endowment from Forest Renewal BC.

THEME: Rural and Community Health & Wellness, Health & Wellness Promotion and Assessment

Programs and Research Chairs:

UNBC Masters in Health Science: <https://www.unbc.ca/health-sciences/community-health>
and PhD: <https://www.unbc.ca/health-sciences/phd-health-sciences>

UNBC Graduate Programs in Nursing: <https://www.unbc.ca/nursing/graduate-programs>,
Psychology <https://www.unbc.ca/psychology>
and Social Work <https://www.unbc.ca/social-work>

TRU Master of Nursing: <https://www.tru.ca/nursing/programs/master-of-nursing.html>

TRU Graduate Certificate in Child and Youth Mental Health:
<https://www.tru.ca/nursing/programs/master-of-nursing.html>

UBCO Graduate Studies Programs:
<http://gradstudies.ok.ubc.ca/prospective/grad-programs.html>

UBC Faculty of Medicine: Northern Medical Program UNBC:
<https://www.unbc.ca/northern-medical-program/health-research>
and Southern Medical Program UBCO: <http://smp.med.ubc.ca/research.html>

Ainslie, Philip: Canada Research Chair, Cerebrovascular Physiology in Health and Disease
<https://hes.ok.ubc.ca/person/philip-ainslie-2/>

Barker, Philip: Canada Research Chair, Molecular Neuroscience
<http://research.ok.ubc.ca/about/vpr.html> <https://barker-lab.ok.ubc.ca/research.php>

Bourque Bearskin, Lisa: CIHR Indigenous Research Chair in Nursing
<https://kamino.tru.ca/experts/home/main/bio.php?id=lbourquebearskin>

Davis, Jennifer: Canada Research Chair, Applied Health Economics
<https://management.ok.ubc.ca/about/contact/jennifer-davis/>

De Leeuw, Sarah: Royal Society of Canada College of New Scholars, Scientists and Artists
member in medical humanities and health determinants in marginalized people
<https://www.unbc.ca/people/de-leeuw-dr-sarah>

Gerlach, Alison: Banting Fellowship in Early Intervention Therapy with Indigenous Communities

<https://www.unbc.ca/releases/43679/unbc-researcher-named-banting-fellow>

Gray, Sarah: Canada Research Chair, Integrative Physiology of Diabetes

<https://www.unbc.ca/people/gray-dr-sarah>

Greenwood, Margo: International Indigenous Fellow and Director, National Collaboration Centre for Aboriginal Health:

<https://www.ccnsa-nccah.ca/313/ac%E2%80%8Bademic-lead.nccah>

Kelly, Karen: BC Rural and Remote Research Institute Co-Chair

<https://www.unbc.ca/rural-health-institute/team>

Li, Eric: Principal's Research Chair in Social Innovation for Health Equity and Food Security

<https://management.ok.ubc.ca/about/contact/eric-li/>

Li, Isaac: Canada Research Chair in Single-Molecule Biophysics and Mechanobiology

<https://chemistry.ok.ubc.ca/about/contact/isaac-li/>

MacLeod, Martha: Northern Health Knowledge Mobilization Research Chair

<https://www.unbc.ca/martha-macleod>

McCormick, Rod: BC Regional Innovation Chair, Aboriginal Health

<https://www.tru.ca/edsw/research/all-my-relations.html>

Martin Ginis, Kathleen: Reichwald Family UBC Southern Medical Program Chair in Preventive Medicine and Director, Chronic Disease Prevention Program

<https://hes.ok.ubc.ca/person/kathleen-martin-ginis/>

Parkes, Margo: Canada Research Chair, Health, Ecosystems and Society

<https://www.unbc.ca/people/parkes-dr-margot>

Pesut, Barb: Canada Research Chair, Health, Ethics and Diversity

<https://nursing.ok.ubc.ca/person/barbara-pesut/>

Snadden, Dave: Rural Doctors' UBC Chair in Rural Health

<https://www.unbc.ca/people/snadden-dr-david>

Voaklander, Paul: BC Rural and Remote Research Institute Co-Chair

<https://www.unbc.ca/rural-health-institute/team>

Institutes and Centres:

Centre for Heart, Lung & Cardiovascular Health: <http://chlvh.ok.ubc.ca/about.html>

Centre for Optimization and Decision Science: <https://www.tru.ca/science/research/cods.html>

Centre for Optimization, Convex and Nonsmooth Analysis: <https://ocana.ok.ubc.ca/index.php>

Centre for Respiratory Health and Sleep Science:

<https://www.tru.ca/science/research/sleep.html>

Cluster of Research Excellence in Community Health:

<http://research.ok.ubc.ca/about/research-excellence-clusters/community-health.html>

Cluster of Research Excellence in Exosome Isolation:

<http://research.ok.ubc.ca/about/research-excellence-clusters/exosome-isolation.html>

Cluster of Research Excellence in Medical Physics and Data Analytics:

<http://research.ok.ubc.ca/about/research-excellence-clusters/MPDAC.html>

Cluster of Research Excellence in Neurobiology:

<http://research.ok.ubc.ca/about/research-excellence-clusters/neurobiology.html>

Critical Cross-Border Conversations Research Group:

<https://www.tru.ca/edsw/research/critical-cross-border-conversations.html>

Cumulative Impacts Research Consortium: <https://www.unbc.ca/cumulative-impacts>

Diabetes Prevention Research Group: <http://dprg.ok.ubc.ca>

Health Research Institute: <https://www.unbc.ca/health-research-institute>

Institute for Healthy Living & Chronic Disease Prevention: <http://ihlcdp.ok.ubc.ca/welcome.html>

National Collaborating Centre for Aboriginal Health: <https://www.ccnsa-nccah.ca/en/>

Northern FIRE Institute and Northern Women's Health: <https://www.unbc.ca/northern-fire>

Nutrition Education Centre: <https://hes.ok.ubc.ca/nutrition-education-centre/>

Rural and Remote Health Research Institute: <https://www.unbc.ca/rural-health-institute>



The Southern Medical Program's Chronic Disease Prevention Program (CDPP) is aimed at progressing the research front in the prevention and management of chronic diseases. Dr. Kathleen Martin Ginis, a Professor with UBC Faculty of Medicine and UBC Okanagan Faculty of Health and Social Development, is the founding CDPP Director.

Labs and Facilities:

Applied Behavioral Change Lab: <http://abclab.ok.ubc.ca>

BC SUPPORT Unit Northern Centre:
<https://www.unbc.ca/health-research-institute/bc-support-unit-northern-centre>

Barker Molecular Biology Lab: <https://barker-lab.ok.ubc.ca/index.php>

Centre for Heart, Lung & Vascular Health Labs: <http://chlvh.ok.ubc.ca/research/labs.html>

- Cardiopulmonary Laboratory for Experimental and Applied Physiology
- Cerebrovascular Physiology Laboratory
- Exercise Metabolism and Inflammation Laboratory
- Integrative Clinical Cardiopulmonary Physiology Laboratory
- Integrative Neuromuscular Physiology Laboratory

Health, Ethics & Diversity Lab:
<https://nursing.ok.ubc.ca/research/health-ethics-and-diversity-lab/>

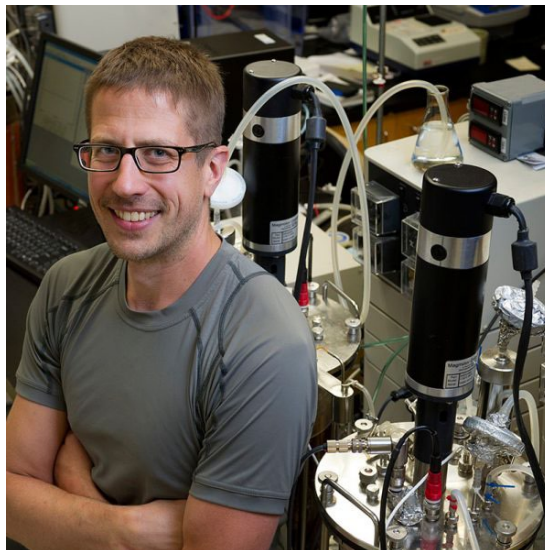
Health and Exercise Psychology Lab: <http://dprg.ok.ubc.ca>

High Throughput Genomics Sequencing – Applied Genomics Lab

<https://inside.tru.ca/2017/02/28/high-throughput-sequencing-lab-at-tru-a-first-for-bc-interior/>

Dr. Jonathan Van Hamme, Associate Professor of microbiology, is director of the Applied Genomics Laboratory at Thompson Rivers University.

The lab's primary focus is on advancing knowledge of environmental remediation and waste treatment, as well as within the agricultural industries, including Canadian food, beverage and nutraceuticals.



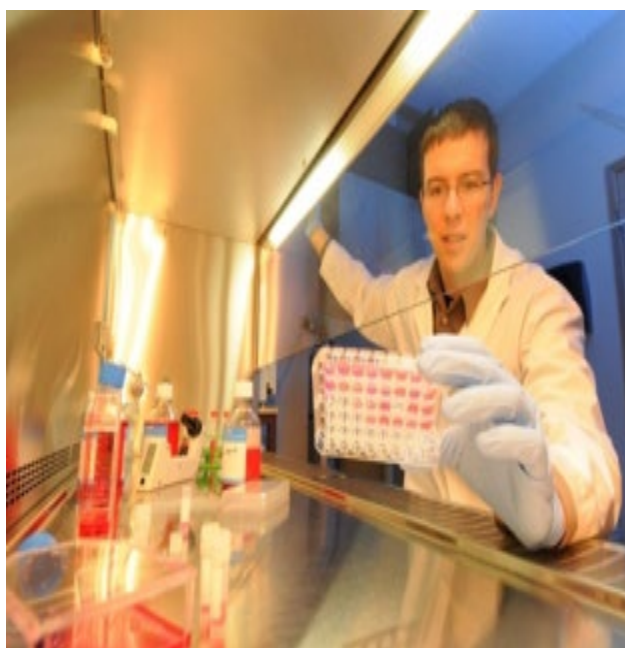
Menard Lab in Chemical Neurobiology: <http://www.menardlab.com>

Northern Analytical Lab: <https://www.unbc.ca/northern-analytical-lab-service>

Protein Expression and Purification Facility: <http://chem.ok.ubc.ca/faculty/kirwolth/facilities.html>

Single Molecule Mechano-Biology Lab: <https://people.ok.ubc.ca/isaaccli/>

Walking Lab – Walking, Health & the Civic Landscape: bbaugh@tru.ca



The research program within the Northern Medical Program (NMP) utilizes a multidisciplinary approach to address fundamental questions under the overarching theme of health research. This mission is accomplished through faculty member's individual research programs with a view to improving health outcomes and influence health policy for the betterment of northern individuals, Canadians and people worldwide. The faculty are actively engaged in research that encompasses three distinct themes that include:

- Basic medical sciences
- Medical education
- Health epidemiology

The research teams are fully collaborative with stakeholders in the region such as The Northern Health Authority and National Collaborating Centre for Aboriginal Health in addition to other research teams nationally and internationally.

THEME: Community and Regional Socioeconomic Development, Engagement, Planning, Management and Infrastructure

People:

Alam, Shahria: Principal's Research Chair in Resilient and Green Infrastructure
<https://engineering.ok.ubc.ca/about/contact/shahria-alam/>

Al-Dabbagh, Ahmad: Principal's Research Chair in Manufacturing Engineering
<https://engineering.ok.ubc.ca/about/contact/ahmad-al-dabbagh/>

Arjmand, Mohammad: Canada Research Chair in Advanced Materials and Polymer Engineering
<https://engineering.ok.ubc.ca/2019/06/17/school-of-engineering-welcomes-first-canada-research-chair/>

Church, John: BC Regional Innovation Chair in Cattle Industry Sustainability
<http://kamino.tru.ca/experts/home/main/bio.html?id=jchurch>

Feng, Chen: Principal's Research Chair in Blockchain-empowered Digital Technology
<https://engineering.ok.ubc.ca/about/contact/chen-feng/>

Foulds, Ian: Principal's Research Chair in Indigenous Reconciliation in Engineering
<https://engineering.ok.ubc.ca/about/contact/ian-foulds/>

Halseth, Greg: Canada Research Chair, Rural & Small Town Studies
<https://www.unbc.ca/greg-halseth/canada-research-chair-rural-and-small-town-studies>

Liu, Jian: Principal's Research Chair in Energy Storage Technology
<https://engineering.ok.ubc.ca/about/contact/jian-liu/>

Mason, Courtney: Canada Research Chair, Rural Livelihoods and Sustainable Communities
<http://courtneymason.sites.tru.ca>

Price, Heather: Canada Research Chair in Culture and Communities, Children and the Law
<http://child-law-research.sites.tru.ca>

Shearer, Karis: Principal's Research Chair in Digital Art and Humanities
<https://fccs.ok.ubc.ca/about/contact/karis-shearer/>

Tannert, Thomas: BC Leadership Chair in Tall Wood & Hybrid Structures Engineering
<http://blogs.unbc.ca/thomastannert/>



UNBC researchers Laura Ryser and Dr. Greg Halseth collaborated on [Towards a Political Economy of Resource-Dependent Regions](#), a book exploring how the pace of change has increased in resource-dependent communities over the past three decades due to complex and interwoven economic, political, social, demographic, cultural, environmental and community changes. “This book is a major product from our long-term research work and it describes the broader context for the changes that are impacting resource-dependent communities and economies,” says Halseth, the Canada Research Chair in Rural and Small Town Studies. “All of it builds from our experiences and research engagement with the changes and issues that are important for Northern B.C.”

Institutes and Centres:

Canadian Institute for Inclusion & Citizenship: <https://cic.arts.ubc.ca>

Centre of Excellence in Data Privacy, Security and Integrity:
<https://www2.unbc.ca/office-research-and-innovation/centre-excellence-data-privacy-security-and-integrity>

Centre for Mindful Engagement: <http://cme.ok.ubc.ca/about-cme/>

Centre for Optimization and Decision Science: <https://www.tru.ca/science/research/cods.html>

Centre for Optimization, Convex and Nonsmooth Analysis: <https://ocana.ok.ubc.ca/index.php>

Centre for Study of Services to Children & Families <http://csscf.ok.ubc.ca>

Cluster of Research Excellence in Green Infrastructure:
<http://research.ok.ubc.ca/about/research-excellence-clusters/green-infrastructure.html>

Critical Cross-Border Conversations Research Group:
<https://www.tru.ca/edsw/research/critical-cross-border-conversations.html>

Community Development Institute: <https://www.unbc.ca/community-development-institute>

Composites Research Network: <http://crno.ok.ubc.ca>

Centre for Optimization and Decision Science (TRU)
<https://www.tru.ca/science/research/cods.html>

Clean Energy Research Centre: <https://news.ok.ubc.ca/engineering/2017/11/16/ubc-okanagan-researcher-appointed-as-new-associate-director-of-the-clean-energy-research-centre/>

Cultural Future of Small Cities (CURA): petts@tru.ca

Innovative Learning Centre: <https://innovativelearningcentre.ca>

Institute for Community-Engaged Research: <http://icer.ok.ubc.ca/welcome.html>



The Institute for Community-Engaged Research (ICER) unites researchers from a broad range of disciplinary backgrounds, including Anthropology, Gender Studies, Indigenous Studies, Economics, Education, Health Studies, Human Geography, Nursing, Social Work and Sociology. ICER is a hub for building relationships, collaboration, and effective knowledge creation and exchange - a unique model for interdisciplinary research.

Institute for Social Research: <https://www.unbc.ca/institute-social-research>

Regional Socioeconomic Development Institute: <http://rsedic.ok.ubc.ca>

Materials and Manufacturing Research Institute:
<https://secure.campaigner.com/csb/Public/show/j8j3n--dbgm7-5jvw8j44>

StatsCan Research Data Centre (branches at UNBC and UBCO): <https://crdcn.org>

Wood Innovation Design Centre (WIDC): <http://www.unbc.ca/graduate-engineering>

Labs and Facilities:

Advanced Control and Intelligent Systems (ACIS) Laboratory:
http://acis.ok.ubc.ca/?page_id=230

Biological Solutions Laboratory: <http://www.biosolutions.ubc.ca>

Bioreactor Technology Group Laboratory: <http://bioreactortechgroup.ok.ubc.ca>

Energy Systems and Power Electronics Laboratory: <http://www.espel.ok.ubc.ca>

Facility for Environmental and Biological Engineering: <http://febi.ok.ubc.ca>

Integrated Optics Laboratory: <http://iol.ok.ubc.ca>

Life Cycle Management (LCM) Laboratory: <http://ok-prolmlab.sites.olt.ubc.ca>

RF and Microwave Technology Research Centre: <http://www.mtl.ok.ubc.ca/index.html>

Survive & Thrive Applied Research (STAR) hub: www.star.ubc.ca

Sustainable Transportation Safety Research Laboratory:
http://engineering.ok.ubc.ca/faculty/gordonlovegrove/STS_lab.html



The Wood Innovation Research Lab (WIRL), under construction in Prince George, BC, will be used by

UNBC's master of engineering in integrated wood design to analyze the environmental load of processes and products used for the new lab. The PICS-supported project will produce life cycle analysis and energy models for four design variations of the building. The research for this project is being conducted by Stephanie Wall (MEng), and supervised by program chair Guido Wimmers.

THEME: First Nations / Indigenous Studies and Aboriginal Understanding

Programs and People:

UNBC Masters in First Nations Studies: <https://www.unbc.ca/first-nations-studies>

Knowledge Makers International Indigenous PhD Circle:
<http://kamino.tru.ca/experts/home/main/profile.html?pid=5442>

UBC Okanagan Graduate Studies:
<http://www.calendar.ubc.ca/okanagan/?tree=18,285,898,1058>

Armstrong, Jeanette

Canada Research Chair, Okanagan Indigenous Knowledge & Philosophy, UBCO
<https://ourstories.ok.ubc.ca/stories/jeannette-armstrong/>

Dr. Jeannette Armstrong is a spokesperson for indigenous peoples' rights. The award-winning writer and activist, novelist and poet has always sought to change deeply biased misconceptions related to Aboriginal people.



Bourque Bearskin, Lisa: CIHR Indigenous Research Chair in Nursing
<https://kamino.tru.ca/experts/home/main/bio.php?id=lbourquebearskin>

De Leeuw, Sarah: Royal Society of Canada College of New Scholars, Scientists and Artists member in medical humanities and health determinants in marginalized people
<https://www.unbc.ca/people/de-leeuw-dr-sarah>

Foulds, Ian: Principal's Research Chair in Indigenous Reconciliation in Engineering
<https://engineering.ok.ubc.ca/about/contact/ian-foulds/>

Harder, Henry: Donald B. Dix BC Leadership Chair for Aboriginal Environmental Health
<http://www.unbc.ca/henry-harder>

Johnson, Shelly: Canada Research Chair, Indigenizing Higher Education
<https://www.tru.ca/edsw/research/indigenizing-higher-education.html>

Loukacheva, Natalia: Canada Research Chair, Aboriginal Governance & Law
<https://www.unbc.ca/people/loukacheva-natalia>

McCormick, Rod: BC Regional Innovation Chair, Aboriginal Health
<https://www.tru.ca/edsw/research/all-my-relations.html>

Mason, Courtney: Canada Research Chair, Rural Livelihoods and Sustainable Communities
<http://courtneymason.sites.tru.ca>

Institutes and Centres:

All My Relations Research Network: <https://www.tru.ca/edsw/research/all-my-relations.html>

Centre for Indigenous Media Arts: <http://cima.ok.ubc.ca>

Centre for Inclusion & Citizenship: <https://cic.arts.ubc.ca>

Institute for Community-Engaged Research: <http://icer.ok.ubc.ca/welcome.html>

Centre for Optimization and Decision Science (TRU)
<https://www.tru.ca/science/research/cods.html>

Critical Cross-Border Conversations Research Group: <https://www.tru.ca/edsw/research/critical-cross-border-conversations.html>

Knowledge Makers International Indigenous PhD Circle:
<http://kamino.tru.ca/experts/home/main/profile.html?pid=5442>

National Collaborating Centre for Aboriginal Health: <https://www.ccnsa-nccah.ca/en/>

Urban Aboriginal Knowledge Network Western Research Centre <http://uakn.org/research-centre/western-research-centre/>



All My Relations is a research network directed by Dr. Rod McCormick (Kaniekehaka), BC Innovation Chair of Aboriginal Health at Thompson Rivers University. The overarching goal of the research network is to develop a national Aboriginal family and community health research and training centre to identify, research and further advance and implement best practices in Aboriginal family and community health and healing.

Other Research Assets and Infrastructure:

Centre for Optimization and Decision Science: <https://www.tru.ca/science/research/cods.html>

Centre for Optimization, Convex and Nonsmooth Analysis: <https://ocana.ok.ubc.ca/index.php>

Distributed Database Lab: <https://people.ok.ubc.ca/rlawrenc/>

High-Performance Computing Lab: <http://web.unbc.ca/hpc/>