The University of Regina is a research-intensive institution that currently leads Canadian comprehensive universities in research impact\(^1\) and international research collaboration\(^2\).

\(^1\)Thomson Reuters’ NCI
\(^2\)Research Infosource

The University of Regina has emerged as a centre of excellence on a number of research fronts. Based upon research impact, critical mass of highly qualified personnel, distinctiveness, and commitment to partners in the community and the Province of Saskatchewan for high impact research, we have established five areas of research strength:

- Anxiety, Stress & Pain
- Digital Future
- Integrated Human Health: Equity, Disease & Prevention
- Social Justice & Community Safety
- Water, Environment & Clean Energy

These areas of strength showcase our extraordinary research achievements, and our capacity to make positive changes in society and to expand new knowledge.
ANXIETY, STRESS & PAIN

Pain, anxiety, depression and stress can be understood as being part of a vicious, self-perpetuating cycle. Understanding, evaluating and managing this cycle is the focus of this area of research.

Our researchers are tackling complex and costly human problems related to anxiety, stress and pain with the ultimate goal of improving functional ability and quality of life for millions of people.

Specific areas of focus include investigating ways of evaluating pain in people with severe dementia, pioneering the study of the co-occurrence of pain and post-traumatic stress disorder (PTSD), and leading the way toward improved access to mental health care for anxiety, depression and pain through Internet-delivered Cognitive Behaviour Therapy (ICBT).

DIGITAL FUTURE

Digital Future researchers are leading the way through innovation and creativity in computing and digital media. They are performing research in data mining, wise computing, visualization, data security and policy, design, creation and analysis of emerging technologies and within the digital humanities. They are emphasizing effective, efficient and sensitive decision-making by working with new information accumulated from diverse sources in scaled quantities of heterogeneous and electronic data.

The growth and continuous expansion of the data culture provides constant opportunities for our researchers to innovate, partner, develop and produce across fields such as commerce, science, education, healthcare, public administration and the arts and culture industries. Results of data analytics are being applied to local businesses with international reach, health (especially e-health), policing and government data sets for policy initiatives.

Innovation is at our core and research is one of the keys to innovation. The University of Regina has helped us move forward, faster by connecting us with researchers and unlocking the potential of innovative ideas.

ISM CANADA, AN IBM COMPANY

The University of Regina research team has successfully helped GasBuddy to move from ideas to prototypes and then move these prototypes to implementation. They provided us with a method for validating gas prices that is now used in GasBuddy software and run more than a million times a day. We’ve also had the chance to work with, and then hire, great students. This relationship has been very rewarding.

GASBUDDY

A multi-disciplinary team researches physiological responses to stress.

Exploring society’s relationship with data by riding, virtually, from coast to coast using Google Street View technology.
The Regina Police Service has been fortunate to build, sustain, and foster relationships with academics at the University of Regina. Working together has allowed for opportunities to increase knowledge through evidence-based and objective research, analysis, and evaluation. In an ever-changing environment, collaboration with researchers at the University of Regina has improved the validity and credibility of policing services in our community.

REGINA POLICE SERVICE

The connection to the University of Regina and the resources available there, as well as the opportunity they gave us to interact with other community organizations and researchers was invaluable.

ASSOCIATION OF TRANSITION HOUSES & SERVICES SASKATCHEWAN
INTEGRATED HUMAN HEALTH: EQUITY, DISEASE & PREVENTION

The main objective of this area of study is to develop and disseminate research knowledge in order to improve the health of Canadians. Researchers in this area perform clinical, bio-medical, population and Indigenous health research, using methodologies from the natural, clinical and social sciences. This integrated health approach focuses not only on traditional biochemical/biomedical research, but also investigates social, political, economic, cultural and population aspects of health.

This cluster serves as a focal point for promoting interactions between researchers, clinicians, policy makers, and the public. It provides a resource for local community interactions and information on health research. Research in this area has focused on a variety of critical issues, including understanding antibiotic resistant microbes and developing the diagnostic tools required to deal with them. Researchers have also helped influence changes in policy, program, health care and clinical practice and created community capacity that empowers it to change its own health outcomes.

SOCIAL JUSTICE & COMMUNITY SAFETY

Work being done in this area involves research and practice focused on equity and fairness at both individual and systemic levels. It considers inequities in social, political and economic power, equitable access to opportunities and resources, as well as scholarship that involves reciprocal University-community engagement. It also includes research that deals with prevention and protection of communities from circumstances or events that could place the safety of individuals or groups in jeopardy.

Researchers in this area study a diverse array of topics such as critical theory, labour studies, human rights, Indigenization, post/anti-colonialism, social services, worker safety and worker rights, bullying, community engagement, corrections, genocide, law and law enforcement, emergency preparedness and victimization.

In our Saskatchewan Plan for Growth, we highlight our government’s goal to show leadership through new research in nuclear medicine, nuclear materials science and other areas. This is why we are pleased to fund collaborative innovative projects at the University of Regina – to advance our province and ultimately create a better quality of life for all Saskatchewan people.

HONOURABLE JEREMY HARRISON, MINISTER RESPONSIBLE FOR INNOVATION

The independent evaluation of the Regina Mental Health Court completed by researchers at the University of Regina is the cornerstone upon which a new and more humane approach to the mentally ill in conflict with the law will be built in Saskatchewan.

JUDGE CLIFFORD TOTH
Simply put, the University of Regina is one of Canada’s top research impact universities. The data demonstrates clearly that the quality of our work is globally respected. The take home message is that if quality over quantity is important, then this is the place for all of our stakeholders to invest time and resources.

DR. DAVID MALLOY, VICE-PRESIDENT (RESEARCH)

WATER, ENVIRONMENT & CLEAN ENERGY

The focus of this area of research is identifying the most serious threats to environments in semi-arid regions in Saskatchewan and elsewhere, providing information to decision makers on how to alleviate negative impacts of climate, land-use and pollution on hydrology, water quality and food-web integrity, and developing adaptive management strategies and policies for the impacts of anticipated climate change, population growth, and increased development of natural resources.

Researchers in this area evaluate the impacts of natural and human effects on grassland, forest and aquatic habitats, develop environmental low carbon technologies to mitigate carbon dioxide emissions associated with climate change, and study other aspects of clean energy such as smart grids, intelligent transportation systems, as well as lean and agile manufacturing.

The “Clean Energy” component provides global leadership in carbon capture and other low clean energy research activities. Researchers in this area have become the go-to resource group on all issues relating to carbon capture.

To our researchers, our investigation of, and reflection upon, intellectual pursuits is fundamental. We engage our students in these pursuits, seeking to instil in them a lifelong quest for knowledge and understanding. We encourage an active and innovative research enterprise that expands the boundaries of knowledge, yet has a meaningful impact at home and around the globe.

We have a thirst to know the unknown.

Simply put, the University of Regina is one of Canada’s top research impact universities. The data demonstrates clearly that the quality of our work is globally respected. The take home message is that if quality over quantity is important, then this is the place for all of our stakeholders to invest time and resources.

DR. DAVID MALLOY, VICE-PRESIDENT (RESEARCH)

We have a thirst to know the unknown.

To our researchers, our investigation of, and reflection upon, intellectual pursuits is fundamental. We engage our students in these pursuits, seeking to instil in them a lifelong quest for knowledge and understanding. We encourage an active and innovative research enterprise that expands the boundaries of knowledge, yet has a meaningful impact at home and around the globe.

– From the University of Regina Strategic Plan 2015-2020: peyak aski kikawinaw (Together we are stronger)
The University of Regina welcomes research partnerships with a wide range of partners including individuals, communities, governments, NGOs, other academic and research institutions, businesses, and industry. If you are interested in partnering with the University of Regina or if you are a researcher looking for assistance in finding an external research partner, please contact:

**Divyesh Patel**, Manager, Research Partnerships  
Ph: (306) 337-3293 • E: divyesh.patel@uregina.ca

For more information on each of our research strengths, please visit:  
[www.uregina.ca/research/research-expertise/research-strengths](http://www.uregina.ca/research/research-expertise/research-strengths)

**The Office of the Vice-President (Research)**  
David Malloy, PhD, Vice-President (Research)  
Administration-Humanities Building 526, University of Regina  
3737 Wascana Parkway, Regina, SK S4S 0A2  
Phone: 306-585-5184 • Fax: 306-585-5255  
E-mail: VP.Research@uregina.ca