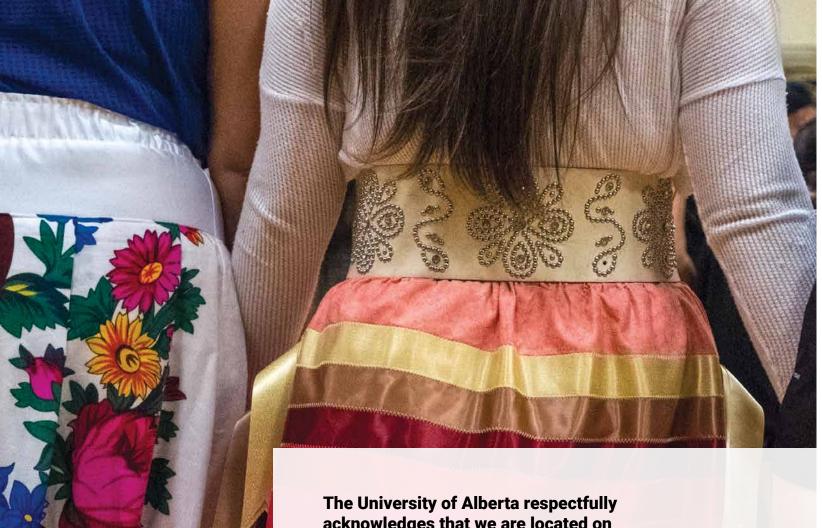


Forward with Purpose:

A Strategic Plan for Research and Innovation

2023 - 2028





The University of Alberta respectfully acknowledges that we are located on Treaty 6 territory, a traditional gathering place for diverse Indigenous peoples including the Cree, Blackfoot, Métis, Nakota Sioux, Iroquois, Dene, Ojibway/Saulteaux/Anishinaabe, Inuit and many others whose histories, languages and cultures continue to influence our vibrant community.

The University of Alberta also acknowledges our enduring roots in the City of Edmonton, traditionally known as amiskwaciywâskahikan, which means Beaver Hills House in Cree. We view our location as an integral aspect of our identity, intertwined with our history, present engagements and future aspirations. Embracing our relationship with this vibrant community, the university strives to work together for the enhancement and betterment of the Edmonton region and beyond.



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The SPRI is a living

the freedom and

the University's

strategic vision.

document, providing our community with

flexibility necessary

research aspirations in the context of

to pursue their specific



This institutional SPRI is the first of its kind at the University of Alberta and reflects the future of our research and innovation enterprise, presenting a bold new step in defining areas for maximum impact to address the grand challenges of our time. It sets out strategies for creating a renewed focus on knowledge mobilization and translation, innovation, commercialization, and for increased mobilization of creative and artistic work.

In an increasingly competitive landscape, this plan establishes clear directions for transforming key strengths into sustainable funding opportunities led by University of Alberta researchers. The SPRI will advance our public, private and community partnerships, empowering us all to move forward together. By focusing on tackling grand challenges through our areas of global excellence—broad, long-term and deep institutional strengths—and areas of leadership primed for further growth, we are fostering a research and innovation ecosystem that supports our researchers and positions the University of Alberta as a top global research institution.

At the same time, the SPRI demonstrates a deep commitment to fundamental, curiosity-driven research. Our institution has significant and extensive research capacity to bring to bear on grand challenges that are vital to the well-being of our societies, economy and environment. Addressing these challenges locally, provincially, nationally and globally requires strong multidisciplinary and intersectoral connections among academia, industry, the public sector and community members. The SPRI is intended for the diverse internal and external communities that make up our research and innovation ecosystem, groups to whom we offer our commitment to being a partner of choice.

The development of the SPRI has been a collective effort of co-creation. We consulted with our expert teams of researchers, innovators, staff and students as well as government, industry and community members, taking into account their strategic priorities. The SPRI serves as a testament to the collective effort and collaborative dialogue that underpins the University of Alberta's commitment to research and innovation.

I would like to express my great appreciation to my colleagues on the Strategic Plan for Research and Innovation Working Group. Their commitment of time, wisdom and vision over the past two years has been inspiring. I also extend my sincere gratitude to the members of the University community and to our external partners who provided their insights and candid feedback, all of which resulted in the creation of our first paninstitutional research and innovation strategic plan.

6



The Office of the Vice President (Research and Innovation) advances the University's large and complex research and innovation enterprise through support, outreach, advocacy and community engagement. The SPRI charts a pathway for the next five years across University endeavours. This Plan aligns with other institutional strategic plans, including *Shape: A Strategic Plan of Impact, Braiding Past, Present and Future*, and our *Strategic Plan for Equity, Diversity and Inclusion*. The SPRI is a living document, providing our community with the freedom and flexibility necessary to pursue their specific research aspirations in the context of the University's strategic vision. Going forward, we will support our colleges, faculties, centres and institutes in the development of their own strategic plans, building on the vision of the University of Tomorrow and our One University approach.

This SPRI is important now. The world continues to recover and learn from the COVID-19 pandemic while facing enduring global inequities and environmental crises. Meanwhile, challenges remain for researchers, administrators, students and staff in meeting these issues. These challenges create opportunities to ask new and significant questions—and to change our ways of thinking. The goals, objectives and actions outlined in the SPRI will help us empower our researchers and innovators with the tools they need to address grand challenges for maximum impact. Our indicators, which enable us to measure our success over the next five years, are both aspirational and achievable.

There is no denying the magnitude of work ahead, nor the variety of perspectives on how to achieve our goals. Our SPRI-both ambitious and focused-challenges us to recognize our strength and potential as an institution and the capacity of our people. It encourages us to ask what we can do at the University of Alberta that cannot be done elsewhere and how we can best serve our communities and partners. Prioritizing and investing in people is the driving force behind this Plan-because our true strength is people: our researchers, administrators, students, staff and partners.

We are here to work with all of you to make what you see on these pages a reality. Our door is open. Our eyes are on the future. We are ready to move Forward with Purpose.

Aminah Robinson Fayek, Ph.D., P.Eng., F.CSCE, NAC Vice-President (Research and Innovation)

Executive Summary

Forward with Purpose: A Strategic Plan for Research and Innovation is the first of its kind at the University of Alberta. The plan reflects the future of our research and innovation enterprise and presents a bold new step in defining areas for maximum impact to address the grand challenges of our time.

Our Research and Innovation Ambition

The University of Alberta strives to be a leader in knowledge generation and translation, inspiring solutions to grand challenges of local, provincial, national and global importance through creativity, research, innovation and higher education. We recognize that addressing these challenges requires strong multidisciplinary and intersectoral connections among researchers and students, industry, the public sector and community members.

We will achieve this ambition through **four goals**, each with objectives, actions and key indicators detailed in the Plan:

Focus on People and Nurturing Talented Researchers

1

Pictured left to right: Talisha Chaputm

Kisha Supernant

Student

Director, Institute of Prairie and Indigenous Archaeology, Associate Professor, Department of Anthropology



- Attract, support and retain exceptional researchers to build on the research strengths
 of the university and contribute to an ecosystem that leads with purpose.
- Enhance our research ecosystem to support researchers from equity-denied groups, including Indigenous Peoples, women, visible minorities, researchers from Black, 2SLGBTQ+, francophone and diasporic communities, and persons with disabilities or who identify as disabled.
- Engage and support diverse researchers and teams from broad research areas and demographic groups to apply for internal and external research awards and expand their national and international research profiles.
- Establish an integrated network of research support for Indigenous initiatives and equity, diversity and inclusion (EDI) in research and creative activities and in multidisciplinary research initiatives.

Support Researchers with Tools and Infrastructure



- Develop streamlined and coordinated processes for integrating and supporting the operation and expansion of shared institutional infrastructure for research and creative activities.
- Strengthen guidelines and develop knowledge bases for research-related administrative, financial and infrastructure operations and protocols, as well as occupational health and safety compliance activities.
- Develop and expand robust and secure safeguarding research systems, including data storage, data exchange and data management systems.
- Enhance development and expand access to high-performance computing and research information management system infrastructure locally, regionally and nationally.

Strengthen Our Research Culture and Broaden Our Impacts



- · Build a centralized research and innovation ecosystem that brings together scholarly networks, multidisciplinary research work, entrepreneurial endeavours, creative works, knowledge mobilization and community-led research activities from across the university.
- · Establish an institutional Innovation Fund to provide risk capital to support high-growth innovation, knowledge creation and entrepreneurial initiatives developed and led by institutional researchers.
- · Translate and mobilize knowledge, innovation, entrepreneurial research, research-creation and creative works to enable, foster and support the formation of public, private and community partnerships.
- Recognize, celebrate, reward and communicate all forms of innovation, entrepreneurship and creative and artistic work and their impacts.

Enhance the University of Alberta's Global Research and Innovation Leadership



- · Broaden, deepen and sustain existing areas of global excellence and growth for addressing grand challenges, while building areas of emerging strength.
- · Strategically align institutional areas of global excellence and growth, and emerging areas of strength, addressing grand challenges while accounting for evolving institutional, government, community and societal priorities.
- Strengthen participation in key municipal, provincial, national and international research networks.
- Build or expand collaborative relationships with international researchers, including those from emerging market economies in the Global South.
- Broaden the reputation of the University of Alberta locally, provincially, nationally and internationally through targeted communications and promotional activities.

ADDRESSING GRAND CHALLENGES

Our university values high-impact research and creative activities across all disciplines and areas of research. Highlighting research areas in which we have global excellence and areas of growth focuses our attention on achieving maximum impact and addressing the grand challenges of our time.

There is no denying the magnitude of work ahead, nor the variety of perspectives on how to achieve our goals. We are here to work with all of you to make what you see on these pages a reality. Our door is open. Our eves are on the future. We are ready to move Forward with Purpose.

Broad, long-term and deep institutional strengths **Energy and Environment** climate change mitigation Artificial Intelligence and data science

approaches to care and well-being

GLOBAL EXCELLENCE:

Areas of leadership primed for further growth Indigenous Research -Energy systems, resilience and Indigenous research, community engagement and relationships **Agriculture and Food** — Sustainable Artificial intelligence, machine learning agriculture, resilient food security and value-added diversification **Health and Well-Being** — Health, **Social Transformations** — Advancing disease prevention and life-course

GROWTH:

social betterment in the 21st century



Through the work of these individuals, teams and partners, the University of Alberta drives positive change in the face of grand societal challenges: environment and climate change, affordable and clean energy, pandemic preparedness, ethical use of digital technologies and artificial intelligence, decolonization and reduced social inequities.

Our Research and Innovation Ambition

The University of Alberta strives to be a leader in knowledge generation and translation, inspiring solutions to grand challenges of local, provincial, national and global importance through creativity, research, innovation and higher education.

> Our university is the site of the first successful open-heart surgery, home to Canada's first organ transplant research group, and was the first to develop ways to separate oil from sand. Our creative climate and commitment to using research outcomes to address challenges have made our university a hub for discourse on Indigeneity, climate action and high-impact research for social betterment.

> The University of Alberta has always been a research leader in solving global challenges, and we will continue to strive for impact at the local, regional, national and global levels. The plan therefore identifies areas of focus where we have global excellence and where we are primed for growth in the context of addressing grand challenges for maximum impact.

To build upon our leadership in our areas of strength and in emerging directions, we must be forward-looking, deliberate and focused in how we plan, organize and support our research and innovation climate. The Strategic Plan for Research and Innovation is our blueprint for research with a purpose.

Guided by the direction set through Shape: A Strategic Plan of Impact, the Strategic Plan for Research and Innovation outlines how we will leverage our existing strengths and assets — and identifies clear choices to reinforce our ecosystem — to capitalize on major opportunities and ensure our talented researchers are empowered with the right tools, processes and culture to achieve and thrive.

This Strategic Plan for Research and Innovation has been led by the Office of the Vice-President (Research and Innovation) which supports researchers at all stages and facilitates external engagement and advocacy with government and partners in industry and local, national, and global communities. Our goal is to support diverse researchers, scholars and innovators across the full research continuum, from curiosity-driven scholarship to research in applied areas. Additionally, we recognize the importance of multidisciplinary large-scale and cross-sectoral initiatives for addressing and developing solutions to grand challenges.

Opposite page:

Clover Bench

PhD, Associate Professor in the Faculty of Agricultural, Life and Environmental Sciences - Ag, Food & Nutri Science Department

FORWARD WITH PURPOSE:



In Shape, the University of Alberta's 10-year plan of impact, the institution outlines the following seven research and innovation goals for transformational impact. These goals inform the Strategic Plan for Research and Innovation and will shape research at the University of Alberta for the next 10 years.

- 1. Increased number of large-scale, multidisciplinary research initiatives that stimulate community-engaged research and impact.
- 2. Development of innovations that tangibly address major social, economic and environmental challenges facing Alberta, Canada and the world.
- 3. More robust and comprehensive research capacity through the durable embedding of Indigenous community engagement and Indigenous ways of knowing into research practices.
- 4. Spinoff and other commercialization activities that bring new products and services to the world.
- 5. Increased representation and research success among researchers from historically underrepresented and equity-denied groups.
- 6. Markedly higher research, innovation and creative collaboration across disciplines, through realized potential of the college structure.
- 7. Improvement in the quality of life for millions of people in communities across Alberta, Canada and the world.

Research and innovation goals for transformational impact



Opposite page:

Monireh Faramarzi

Assistant Professor and Campus Alberta Innovates Chair in Watershed Science

Taking Stock of Our Opportunities

What Makes Us Unique?

As the northernmost U15 university, we are a Prairie land-based research-intensive university with strong connections to Canada's North.

Our relationships with Indigenous, rural, Francophone, local and national communities, industry and the land have cultivated innovative solutions to grand societal challenges.



In assessing our position, some key strengths and observations emerge.

The University of Alberta is a dynamic environment for generating new ideas and fostering innovation for significant societal impacts. We have a rich diversity of people, creating opportunities for fruitful multidisciplinary and intersectoral exchanges and collaborations. Through co-learning and co-creation, our researchers, partners and communities come together to develop novel and innovative perspectives, approaches and methodologies. In particular, we have:

• Deep relations with a rich tradition and connections to land. With campuses in both Edmonton and Camrose, and as the geographically northernmost U15 institution, our university offers a unique perspective in connection with a complex, biodiverse land and interconnected peoples. Our location enables us to learn from the rich traditions of First Nations, Métis, Inuit and all First Peoples of this place now called Canada, and to integrate those traditions into how we conceive, design and conduct research, recognizing the importance of genuine community engagement and participation at all stages of the process.

Internationalization at the Heart of Research and Innovation

The University of Alberta has more than 700 agreements with governments, universities and other organizations in over 80 countries.

Steadfast commitment to equity, diversity, inclusion and decolonization. Our
university demonstrates strength in research that addresses systemic inequities
and injustices for equity-denied groups through numerous researchers who bring
a diversity of perspectives and knowledge. We are willing to have courageous
conversations in support of our national commitments to reconciliation, the
Scarborough Charter and the Dimensions Charter. Our university commits to centering
the principles of equity, diversity, inclusion and decolonization to embrace diverse
ways of knowing, learning and doing.

- Significant local, regional, national and international connections. Over many
 decades, our university has expanded touchpoints with post-secondary institutions,
 research institutes, industry and social innovation groups in our local communities
 and across the globe. We have a worldwide network of alumni, and each year, we
 attract thousands more research students and trainees to the University of Alberta.
- Demonstrated uniqueness and strength in key areas. Our university boasts
 national and global leadership and emerging strengths in several research areas

 such as conventional oil and gas technologies, the transition to net-zero energy
 solutions, the health and well-being of women and children, Indigenous research,
 artificial intelligence, sustainable agriculture, virology and disease prevention, and
 transformative approaches to advancing social betterment.

Our Research and Innovation Strengths

The University of Alberta is known for energy innovations, discoveries in artificial intelligence, lifesaving vaccines and cell-based therapies, community-engaged Indigenous pedagogical research, agricultural breakthroughs and research addressing intersectional inequities and decolonization.

- Balanced breadth and depth: We have a diverse and multidisciplinary research
 ecosystem and recognize the sensitive interplay between supporting the extensive
 range of our research strengths and maintaining focused excellence. Our vision is to
 foster a research ecosystem that empowers all our researchers and enables us to
 excel in areas of maximum impact.
- New structures foster greater collaboration. The new college structure at our
 university offers great potential for identifying, nurturing and seizing opportunities
 for enhanced multidisciplinary collaboration across traditional knowledge and
 disciplinary boundaries and for exploring innovative methodologies. The work of the
 Centres of Expertise in the Vice-President (Research and Innovation) portfolio is key
 in these efforts, through its provision of planning, pre-award, post-award, technology
 transfer and general research-related support services.

Mobilizing for Maximum Impact

Maximizing Impact through the Sustainable Development Goals

The University of Alberta is maximizing impact on the world around us through excellence in working towards the United Nations' Sustainable Development Goals (SDG). We are ranked 1st in Canada for the SDGs of Affordable and Clean Energy and Industry, Innovation and Infrastructure. For our work to end hunger and achieve food security, we are ranked 2nd in the world for the Zero Hunger goal.

The Strategic Plan for Research and Innovation brings greater focus and alignment to our research, innovation and creative activities. It is intended to outline the strategic vision for research and innovation at the University of Alberta over the next five years, with the goal of working together with the university community, government and industry and external partners to maximize our impact on the world around us.

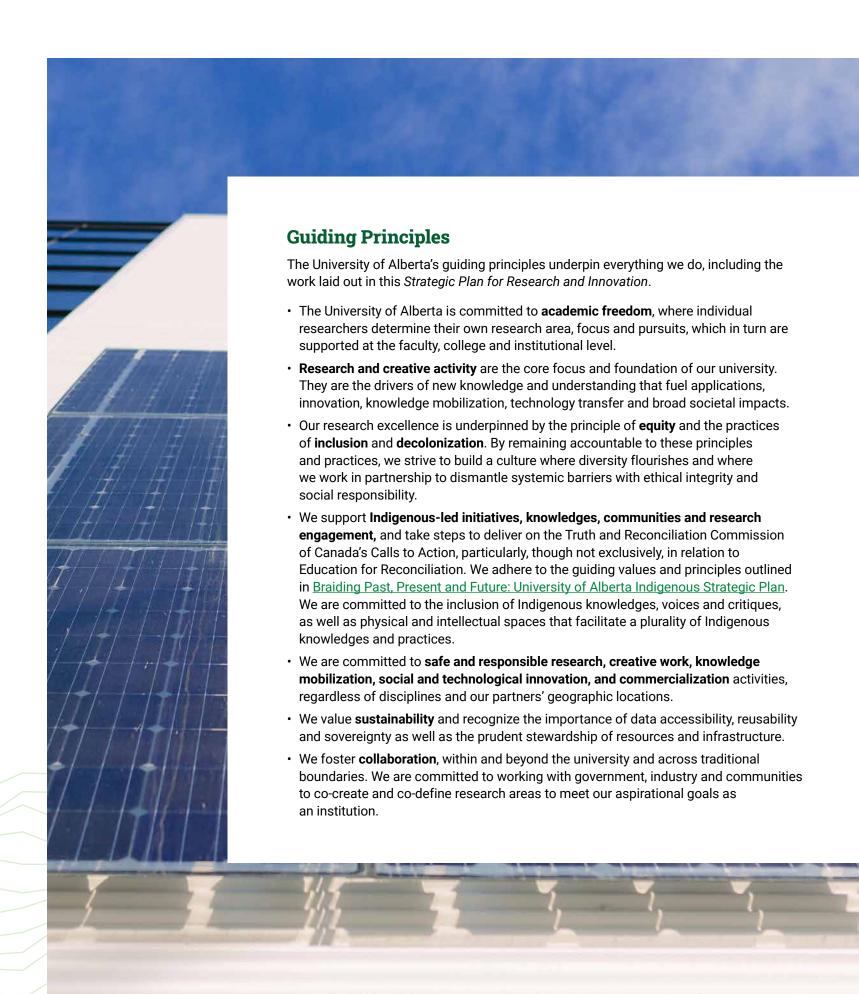
We define impact broadly and inclusively to recognize the validity of different dimensions and interpretations of impact across disciplines, research programs and all related scholarly activities. These include short- and long-term economic, environmental and social impacts and engagements.

We maximize our impact through deliberate investments and efforts — across all disciplines and domains — to enhance key drivers of an exceptional research and innovation ecosystem.

The result will be a prevailing climate of support for researchers and research: one that fosters multidisciplinary engagement; provides safety in the pursuit of various lines of inquiry; integrates principles of equity, diversity, inclusion, decolonization and reconciliation; and centres collaboration in the generation and mobilization of knowledge.

Our vision includes a strong focus on social impact and advocates for greater representation of the social sciences, humanities and performing and fine arts, and harnesses these to address the grand challenges of our time.

Over time, the University of Alberta will solidify its international reputation of leading with purpose to address the major questions and challenges in our global environment.



Strategic Research and Innovation Goals

The Strategic Plan for Research and Innovation identifies four goals, each underpinned by tangible objectives, actions and indicators. Together, they articulate how we will further focus, align and enhance our research and innovation ecosystem to maximize our university's impact on the world.

Goals of the Strategic Plan for Research and Innovation

1

Focus on people and nurturing talented researchers.

2

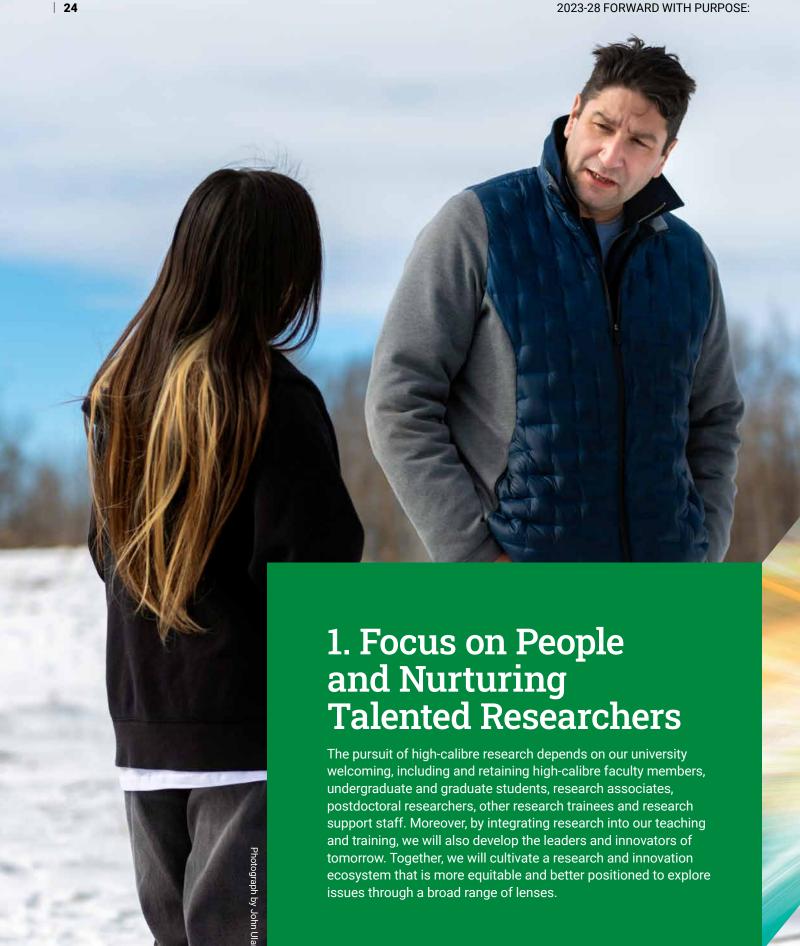
Support researchers with tools and infrastructure.

3

Strengthen our research culture and broaden our impacts.

4

Enhance the University of Alberta's global research and innovation leadership.



OBJECTIVE 1.1

Attract, support and retain exceptional researchers to build on the research strengths of the university and contribute to an ecosystem that leads with purpose.

Actions:

- 1. Strategically orient the Canada Research Chair (CRC), Canada Excellence Research Chair (CERC) and other chair programs to retain and attract worldclass emerging and established researchers in targeted areas of strength.
- 2. Encourage and enhance the inclusion of undergraduate and graduate students, postdoctoral researchers and other trainees into the research ecosystem and learning environments and within local, national and international communities to develop exceptional researchers of tomorrow.
- 3. Promote the research strengths of the institution to targeted external researcher demographic groups, including equity-denied groups, to attract early career researchers.
- 4. Encourage, create and sustain clusters of researchers in high-impact, funded research initiatives through collaboration among colleges, faculties and centres and institutes.

OBJECTIVE 1.2

Enhance our research ecosystem to support researchers from equity-denied groups including women, visible minorities, researchers from Indigenous Peoples, Black, 2SLGBTQ+, francophone and diasporic communities, and persons with disabilities or who identify as disabled.

Actions:

- 1. Expand collaboration among the Office of the Vice-President (Research and Innovation), the Office of the Provost and Vice-President (Academic), colleges and faculties to enhance funding opportunities for trainees and early-career researchers from equity-denied groups to increase researcher and faculty diversity.
- 2. Create new, and engage existing, programs to expand research and training opportunities and communities for equity-denied groups.
- 3. Create strategic workshops and training resources for targeted groups of researchers, including those from equity-denied groups and early-career researchers, to develop and strengthen research leadership and project management skills.
- 4. Through collaborations among the faculties, colleges and centres and institutes, increase the number of university researchers from equity-denied groups who lead or co-lead large-scale, collaborative, funded, interdisciplinary research initiatives.
- 5. Align strategic allocations of Canada Research Chair, Canada Excellence Research Chair and other chair and research professorship positions to increase the number of recipient researchers from equity-denied groups.

Opposite page:

Sean Lessard

Associate Professor, Faculty of Education - Secondary **Education Department**

2023-28 FORWARD WITH PURPOSE: A STRATEGIC PLAN FOR RESEARCH AND INNOVATION 27

OBJECTIVE 1.3

Engage and support diverse researchers and teams from broad research areas and demographic groups to apply for internal and external research awards and expand their national and international research profiles.

Actions:

- 1. Strategically design internal research award processes and policies, incorporating, where applicable, Indigenous worldviews and furthering the principles of equity, diversity and inclusion (EDI).
- 2. Recognize, support and celebrate research that is community-engaged, community-led, intersectional, francophone and partnered with Indigenous communities.
- 3. Establish targeted internal awards to recognize and celebrate Indigenous scholars, scholars from equity-denied groups, research scholarship in the areas of Indigenous-engaged research and research that addresses and/or achieves greater levels of EDI.
- 4. Strengthen capacity related to national and international research awards, ensuring that engagement and nomination processes are attentive to principles of Indigenous-led and Indigenous-engaged research and EDI.

OBJECTIVE 1.4

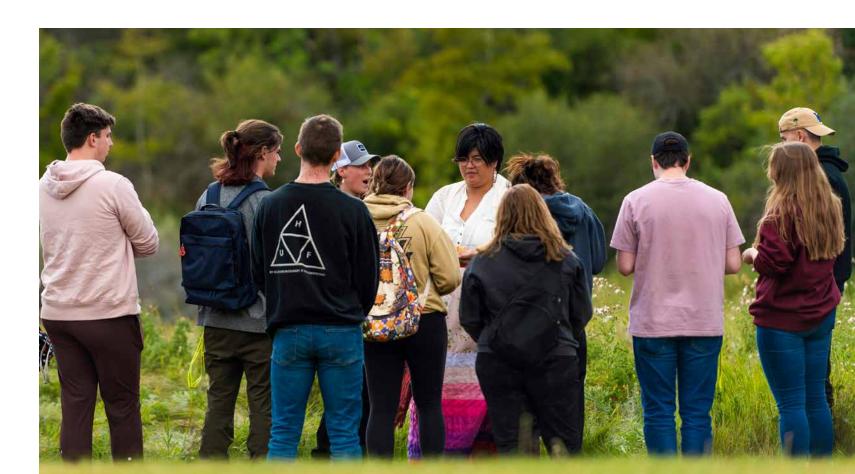
Establish an integrated network of research support for Indigenous initiatives and equity, diversity and inclusion (EDI) in research and creative activities and in multidisciplinary research initiatives.

Actions:

- 1. Create an EDI research centre of expertise in the Office of the Vice-President (Research and Innovation).
- 2. Create an Indigenous research and innovation centre of expertise in the Office of the Vice-President (Research and Innovation).
- 3. In collaboration with the Offices of the Vice-Provost (Indigenous Programming & Research) and the Vice-Provost (Equity, Diversity and Inclusion), develop and provide training and web-based tools on Indigenous initiatives and EDI to researchers as an integral element of research grant and ethics applications, including multidisciplinary research initiatives.
- 4. Formally engage researchers in integrating Indigenous-engaged scholarship, research and relationships in relevant research grant and award applications.

Key Indicators:

- 1. Increase the Canada Research Chair allocations to the institution by 15% by 2028.
- 2. Increase per capita funding held by researchers from equity-denied groups by 25% by 2028.
- 3. Increase external funding that targets the recruitment of research trainees and faculty from equity-denied groups by 30% by 2028.
- 4. Increase the number of university researchers from equitydenied groups who lead or co-lead large-scale, collaborative, funded research initiatives by 25% by 2028.
- 5. Increase the application rate for external awards by 30% by 2028.
- 6. Increase the number of successful national and international research awards by 25% by 2028.
- 7. Increase Indigenous-led grant applications by 10% by 2028.





2. Support Researchers with Tools and Infrastructure

To sustain creativity and fuel learning, knowledge creation and innovation, talented researchers require high-calibre research supports, tools and spaces, including technicians and research support staff. Our university will continue to provide a suite of research support services that effectively meet the day-to-day and strategic needs of researchers and innovators. We will also strategically build on our robust research infrastructure to ensure researchers across all disciplines and faculties benefit from high-quality spaces and tools, including creative and artistic workspaces, data systems, lab equipment, computing power and other necessary technological infrastructure.

OBJECTIVE 2.1

Develop streamlined and coordinated processes for integrating and supporting the operation and expansion of shared institutional infrastructure for research and creative activities.

Actions:

- 1. Expand and diversify funding to support infrastructure expansion and renewal, moving to establishing institutional core and shared research and creative activity infrastructure.
- 2. Develop institutionally harmonized operation of stand-alone infrastructure, research platforms and core facilities—such as the small-animal services facilities and shared computational facilities—for research and innovation across the multiple campuses of the institution.
- 3. Implement effective models for financial sustainability and regulatory processes for animal welfare, research ethics and clinical trials to ensure proper operations and compliance.
- 4. Review and audit infrastructure and equipment access and use through an EDI lens.
- 5. Support researchers in grant development with funding for activities such as management of proposal development processes, grant writing and editing.

OBJECTIVE 2.2

Strengthen guidelines and develop knowledge bases for research-related administrative, financial and infrastructure operations and protocols, as well as occupational health and safety compliance activities.

Actions:

- 1. Develop communication and training assets for researchers and trainees at all stages, focusing, especially on early-career researchers.
- 2. Improve, coordinate and expand institutional researcher onboarding and support processes for administrative, operational, facilities, safety and financial matters.
- 3. Develop a searchable database with research proposal development resources, grant examples and templates for researchers, trainees and innovators.

OBJECTIVE 2.3

Develop and expand robust and secure safeguarding of research systems, including data storage, data exchange and data management systems.

Actions:

- 1. Strategically streamline and implement institutional processes and systems for safeguarding research, technology transfer protocols, intellectual property protections, and research data management processes.
- 2. Strategically support the development of research data management grounded in principles of findability, accessibility, interoperability and reusability (FAIR) and First Nation principles of Ownership, Control, Access and Possession (OCAP).
- 3. Develop resources and processes for evaluating the risks and mitigating any impacts of unauthorized disclosure of research information and data.

OBJECTIVE 2.4

Enhance development and expand access to high-performance computing and research information management system infrastructure locally, regionally and nationally.

Actions:

- 1. Align existing and emerging research areas for maximum impact with access to high-performance computing resources.
- 2.Lead development of information technology and library support platforms for research information management.
- 3. Leverage existing national research data repository platforms to expand access and sharing of research data.

Key Indicators:

- 1. In order to expand core facilities and infrastructure, increase annual sponsored research revenue for infrastructure from the Canada Foundation for Innovation by 50% and from other sources by 50% by 2028.
- 2. Identify and implement core support platforms for high-performance computing by 2025.
- 3. Building on the Institutional Research Data Management Plan, increase institutional capacity to support data-intensive research activities across the university by 2026.
- 4. Increase open access, open data publications and works by 50% by 2028.





OBJECTIVE 3.1

Build a centralized research and innovation ecosystem that brings together scholarly networks, multidisciplinary research work, entrepreneurial endeavours, creative works, knowledge mobilization and community-led research activities from across the university.

Actions:

- 1. Publicize and promote research outcomes and successes both internally and externally to enhance our innovation ecosystem.
- 2. Formulate and support institutionally-led formal training programs and activities for researchers and community partners in innovation and entrepreneurial initiatives, knowledge mobilization and community-engaged research activities.
- 3. Coordinate and strategically communicate the institution's innovation supports and services through centralized communication tools.
- 4. Engage and connect diverse funding sources to support innovation including social innovation, commercialization, mentorship, upskilling, experiential learning and training through interdisciplinary entrepreneurial and socially innovative research.
- 5. Develop innovation, commercialization and social impact annual reports to share with internal and external partners.
- 6. Create an online searchable database platform of all knowledge mobilization, commercialization and social innovation initiatives across the university.
- 7. Designate Research Impact Canada champions to support the social and cultural impact of research output.
- 8. Develop an intellectual property approach that better supports early-stage ventures and entrepreneurs and highlights ways to ensure that non-patentable inventions are adopted by local, national and international communities.

Opposite page:

Florence Glanfield

Vice Provost (Indigenous Programming & Research) at a gathering of the Supporting Indigenous Languages Revitalization Project Advisory Council and Community Partners.

OBJECTIVE 3.2

Establish an institutional Innovation Fund to provide risk capital to support highgrowth innovation, knowledge creation and entrepreneurial initiatives developed and led by institutional researchers.

Actions:

- 1. Strategically invest risk capital from the Innovation Fund in business startups by leveraging innovation, knowledge creation, artistic and entrepreneurial activities developed by researchers.
- 2. Create pathways for the development and support of proposals to the Innovation Fund, and establish an independent investment committee to manage the fund.
- 3. Use the Innovation Fund to support the mobilization of research, innovation and creative and artistic activities and initiatives for commercialization or community implementation programs.
- 4. Use the Innovation Fund to develop companies for scale and reinvest financial gains in the institution, highlight best practices and contribute to further research and innovation.

OBJECTIVE 3.3

Translate and mobilize knowledge, innovation, entrepreneurial research, research creation and creative works to enable, foster and support the formation of public, private and community partnerships.

Actions:

- 1. Build and support partnerships with municipal, provincial and national governments, Indigenous nations, not-for-profit organizations and the private sector to collaboratively develop and implement innovative, creative, artistic, entrepreneurial and commercial solutions to shared challenges.
- 2. Where appropriate, translate research and creative works outcomes into policy or regulatory frameworks to address government and societal priorities.
- 3. Integrate institutional commercialization assets into a cohesive network that will be a major player in the external innovation ecosystem of Alberta and Canada.
- 4. Refine and streamline all intellectual property and commercialization policies to stimulate and support institutional entrepreneurship activities.
- 5. Showcase our artwork, creative performances and collections locally, provincially, nationally and globally.
- 6. Develop relationships and collaborate with Indigenous, northern and equitydenied communities and civil society organizations to define and stimulate community-driven and community-led research and implementation programs.
- 7. Leverage the strength of centres and institutes to stimulate, nurture and enhance industry partnerships and community-led and engaged research.
- 8. Conduct ongoing environmental scans of municipal, provincial and national priorities and strategies to align strategic and emerging research directions.

OBJECTIVE 3.4

Recognize, celebrate, reward and communicate all forms of innovation, entrepreneurship and creative and artistic work and their impacts.

Actions:

- 1. Create events to celebrate innovation awards and showcase researchers.
- 2. Draw from existing initiatives, hubs and teams to create forums for researchers and university innovators to share innovation narratives.
- 3. Incentivize innovation, entrepreneurship, commercialization and creative activities through a framework of financial support and a reward system.
- 4. Develop release opportunities for researchers and innovators to facilitate and reward entrepreneurship, social innovation and commercialization activities.

Key Indicators:

- 1. Increase spinoffs, startups, licences and non-patentable inventions being adopted by external partners and communities by 35% by 2028.
- 2. Launch the Innovation Fund to directly invest in startups from early-stage concepts (pre-seed) to the first stage of company creation by 2024 and grow the Innovation Fund to \$50 million by 2028.
- 3. Increase sponsored research revenue from programs that support experiential learning and skills training through research by 50% by 2028.
- 4. By 2028, support at least two Indigenous-led initiatives that define and stimulate public, private and community-engaged research and impact.
- 5. Increase success rates by 15% for research in social innovation, entrepreneurial initiatives, research creation, fine arts and community-led initiatives by 2028.



OBJECTIVE 4.1

Broaden, deepen and sustain existing areas of global excellence and growth for addressing grand challenges, while building areas of emerging strength.

Actions:

- 1. Prioritize multi-partner, multi-institutional and international collaborative research and funding initiatives that target areas of global excellence and growth to address grand challenges.
- Align research chairs and allocations for infrastructure funding with areas of research strength, innovation and creative activity, while honouring our commitments to EDI and Indigeneity.
- 3. Leverage the colleges to conceptualize and lead large-scale, collaborative, multidisciplinary research initiatives.
- 4. Build high-priority collaborative opportunities across the academy, including sole-investigator-driven research activities, formation of multidisciplinary and diverse research teams, training and translation of skills to address major shared challenges with the public and private sectors and civil society.
- 5. Leverage the strength of centres and institutes across the university to create and nurture multidisciplinary research hubs or networks in areas of global excellence and growth in addressing grand challenges for maximum impact.
- 6. Leverage the strength of centres and institutes across the university to respond to targeted multidisciplinary research and training challenges, priorities and funding calls.
- 7. Strategically mobilize university resources to increase and leverage research funding from diverse government, industry, not-for-profit and community sources.

OBJECTIVE 4.2

Strategically align institutional areas of global excellence and growth, and emerging areas of strength, addressing grand challenges while accounting for evolving institutional, government, community and societal priorities.

Actions:

- 1. Establish an institutional Strategic Research Initiatives Fund to support and leverage areas to address grand challenges for maximum impact, innovation and creative activity, and increase sponsored research funding.
- 2. Create strategic advisory groups of institutional, local, regional, national and international experts for each area of global excellence and growth to address grand challenges for maximum impact to provide current knowledge, critical thinking and analysis on research directions and priorities.

OBJECTIVE 4.3

Strengthen our participation in key municipal, provincial, national and international research networks.

Actions:

- 1. Secure membership and committee participation in recognized networks that align with institutional areas of global excellence and growth as well as emerging areas of research excellence.
- 2. Collaborate with all levels of government on mutual priorities and leverage funding support to build municipal, provincial, national and international partnerships.
- 3. Integrate international institutional partners in large-scale multidisciplinary research initiatives and funding opportunities.
- 4. Maintain participation in key international research networks to develop meaningful, mutually beneficial and sustainable research partnerships.
- 5. Engage in advocacy and outreach to build awareness of research, innovation and creative work, in collaboration with industry and community partners.

OBJECTIVE 4.4

Build or expand collaborative relationships with international researchers, including those from emerging market economies in the Global South.

Actions:

- 1. Build bilateral relationships with institutions across the globe with a focus on countries in the Global South to enhance our global citizenship and strengthen our research through a diversity of perspectives.
- 2. Mobilize research activities and outcomes informed and led by researchers from countries in the Global South and emerging market economies to work in partnership for mutual and reciprocal societal, cultural, economic and environmental benefits.

OBJECTIVE 4.5

Broaden the reputation of the University of Alberta locally, provincially, nationally and internationally through targeted communications and promotional activities.

Actions:

- 1. Targeting local communities, provincial, national and international markets, celebrate and highlight institutional strengths and accomplishments in key research areas through digital marketing and promotional assets.
- Create a research impact framework that aligns with the San Francisco
 Declaration on Research Assessment (DORA) to measure and communicate the
 impacts of research, innovation and creative activity, including contributions to
 the broader civil society.
- 3. Expand institutionally coordinated visits to selected international priority partners and other emerging or potential partners annually to promote our research brand and build relationships.
- 4. Develop an annual report on research and innovation, including research outcomes, institutional rankings, funding data and success rates to share with internal and external partners.

Key Indicators

- 1. In alignment with the University Strategic Plan, increase annual sponsored research revenue to \$650 million by 2028 and \$750 million by 2033.
- 2. In alignment with the University Strategic Plan, become one of the top three ranked U15 universities in annual sponsored research revenue by 2033.
- 3. In alignment with the University Strategic Plan, become one of the top 50 internationally ranked universities by 2033.
- 4. Increase annual sponsored research revenue from the Tri-Agencies by 15% by 2028.
- 5. Increase sponsored research revenue per faculty member by 20% by 2028.
- 6. Increase the university's SDG ranking to 5th overall in the world by 2028 by addressing grand challenges for maximum impact.
- 7. Create at least six new bilateral research partnerships with institutions in the Global South by 2028.
- 8. Increase research grant applications involving government, industry and community partners by 30% by 2028.
- 9. Establish partnerships with industry, not-for-profit organizations and communities in local and regional contexts that result in a 15% increase by 2028 in Tri-Agency partnership programs and other partnership program funding.
- 10. Establish two college-led initiatives per college per year targeting interdisciplinary, high impact, collaborative funding.

Addressing Grand Challenges

Our university values and is committed to supporting high-calibre research and creative activities across all disciplines and in all areas of research. Highlighting research areas in which we have global excellence, as well as areas of leadership primed for further growth to address grand challenges, provides a way of focusing attention and investment in order to achieve maximum impact.

Investments and initiatives will be designed in ways that underpin the areas of excellence and growth to address grand challenges, while enhancing research and creative activities in new and emerging areas. As a comprehensive, research-intensive university, we are proud of our commitment to high-impact research and creative activities across all disciplines. Our university has opportunities to harness this robust body of scholarship in ways that allow us to address grand societal challenges through research and innovation.

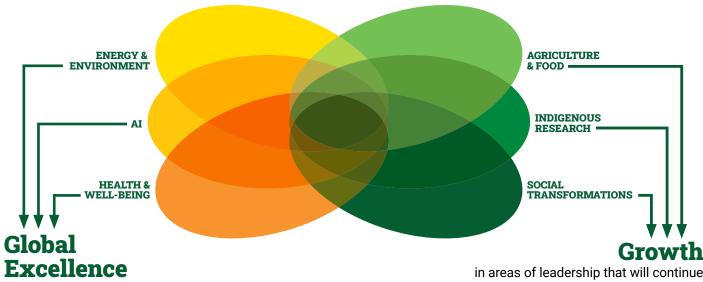
The goal of addressing these grand challenges will guide our investments and initiatives to significantly enhance capacity and multidisciplinary collaboration.

Curiosity-Driven Research Today Produces Tomorrow's Areas of Global Excellence

We have been a national leader in fostering ideas that have long-term impact on Edmonton, Alberta, Canada and the world.

Supporting new and emerging research and scholarship activities in areas such as quantum science, security and defence, planetary health, space technologies, social implications of climate change, diasporic African and Black communities, design studies, performing arts and global mental health will set the stage for global excellence in the future.

These grand challenges will be addressed under two themes:



in areas where our university has broad, long-term and deep institutional strength.

in areas of leadership that will continue to further position the University of Alberta as a top global research institution.

In the context of global excellence and growth, our goal is to leverage our unique strengths by providing detailed insight into how we can make the greatest impact. We recognize the importance of the intersection between, and the multidisciplinary nature, of these areas for maximum impact. Our approach therefore is synergistic and collaborative, designed to bring together the depth and breadth of our researchers with industry, government and community partners to co-develop deeper understandings of, and innovative solutions to, grand challenges of our time.

42 2023-28 FORWARD WITH PURPOSE:



GLOBAL EXCELLENCE



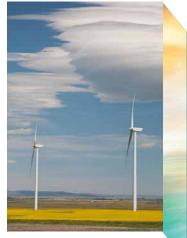
Energy systems, resilience and climate change mitigation

Our deep and renowned expertise in energy has taken on new significance in the face of the environmental crisis and the global climate emergency. It is a challenge that demands innovative solutions for stable, reliable energy in a net-zero emissions future.

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Our researchers are at the leading edge of developing the technologies to produce, store, transport and deliver cleaner, reliable energy sources in ways that drive us to net-zero emissions and help meet global climate change commitments. Importantly, this research is occurring across the continuum of energy systems — from production through to transmission, storage and consumer use.

It also includes robust social science and humanities research to address policy, regulatory and ethical issues and explore the unique implications of energy transition alongside diverse peoples and communities, including Indigenous communities.



Impact in Energy

- One of the top 10 universities globally for energy systems research
- Ranked as one of the top 50 academic institutions for energy and climate subjects
- · More than 50 research chairs in energy and environment
- More than \$1B invested in over 170,000 m² of energy research infrastructure
- First to discover technology to unlock bitumen from oil sands
- · Researchers inform policies, such as Alberta's Hydrogen Roadmap

Energy and Environment Research and Innovation Directions:

- Discover, develop and translate resilient renewable energy technologies and energy transition solutions, including hydrogen, wind, solar, geothermal and biomass fuel sources
- Develop new methods and technologies to make more efficient use of conventional energy sources, reduce greenhouse gas and carbon emissions, and support carbon capture, utilization and storage.
- Address the impacts of energy systems on humans and the environment, including soil, water, air and biodiversity.
- Formulate and improve land reclamation and contaminant remediation measures to address environmental impacts.
- Address energy systems in northern climates with below-freezing temperatures many months of the year.
- Broaden our understanding of the social implications of energy use and the transition to a net-zero economy.

Opposite page:

Jane Yardley

Diabetes researcher at
Augustana Campus

ARTIFICIAL INTELLIGENCE

Artificial intelligence, machine learning and data science

Over the past three decades, our institution has been at the foundation and forefront of global research in artificial intelligence (AI) and machine learning. Our university's innovations have already made key contributions to reinforcement learning, video game design, health informatics, precision health imaging and diagnostics, smart prosthetics and robotics, automated legal reasoning, language learning, financial forecasting, artistic practice, linguistic research, smart agriculture tools, optimization of oil and gas recovery and water treatment.

Importantly, these inquiries also extend to exploration and a deeper understanding of the social, cultural, economic, ethical, ontological and privacy implications of AI, machine learning and data science. We will continue to lead the discourse around how these technologies will interact with diverse peoples, including the incorporation of Indigenous worldviews and epistemologies.



Excellence in Artificial Intelligence

- First to launch a computer science department in Canada
- Ranked #2 in Canada for AI research (based on US News Global University AI rankings)
- Partners with one of Canada's three national Al hubs
- More than 35 Canada CIFAR AI Chairs and 15 other research chairs
- Nearly \$100M in funding for AI since 2017

Artificial Intelligence Research and Innovation Directions:

- Advance applications of artificial intelligence to autonomous systems, space technologies, smart buildings and cities, quantum technologies, smart agriculture and health
- Integrate artificial intelligence, machine learning and data science for autonomy, adaptability and reliability of net-zero energy systems.
- Analyze the intersectional, social, cultural, ethical and educational impacts of artificial intelligence, and use AI in artistic practice to study the ways in which it shapes race and gender relations, equity and diversity.

HEALTH AND WELL-BEING

Health, disease prevention and life-course approaches to care and well-being

Our university's health research and innovation has a planetary health focus that establishes intersections among the environment, energy, food security, agriculture and physical activity. We are a leader in integrating social determinants of health—such as income, education, social status, gender, race, ability and other intersectional identities as well as access to nutritious food, physical activity, housing and employment—into scholarly discourse and actionable interventions to address health inequities. Our work in life-course approaches to advance the physical and mental health and well-being of children, women, as well as aging and elderly populations is locally, nationally and internationally recognized.

With this incredible and versatile strength, we are ready to respond to an array of public health issues and threats, including emerging pathogens. Our deep expertise in clinical trials and translational research will bolster our institution's impact in areas such as disease management and prevention, biomedicine and next-generation therapies.



Accomplishments in Health

- 2020 Nobel Prize Laureate in Medicine, Dr. Michael Houghton, for discovery of the Hepatitis C virus
- More than \$90M for the Li Ka Shing Institute of Virology and \$55M for pandemic preparedness
- Home to one of five national Canadian Biomedical Research Fund Hubs,
 The PRAIRIE Hub for Pandemic Preparedness
- More than \$100M in research funding for precision health, intelligent medical devices and therapeutics
- Leader of the \$80.5M Canadian Critical Drug Initiative to create 1,000 high-paying pharmaceutical jobs
- More than \$100M for the Women and Children's Health Research Institute
- · More than 75 research chairs in health and well-being

Health and Well-being Research and Innovation Directions:

- Expand and translate knowledge from a life-course perspective and an intersectional lens through multidisciplinary and community-engaged research to advance the health and well-being of all, including underserved populations, with a focus on women and children.
- Discover and develop new vaccines, cell-based therapies and small molecule therapeutics.
- Accelerate cutting-edge research in digital health and applications of artificial intelligence.



GROWTH



INDIGENOUS RESEARCH

Indigenous research, community engagement and relationships

The University of Alberta views research, creative activities and innovation as opportunities to build meaningful relationships and engage with First Nations, Inuit and Métis Peoples. This vision is strengthened by *Braiding Past, Present and Future: University of Alberta Indigenous Strategic Plan,* an Indigenous-led and Indigenous-written five-year plan that outlines how Indigenous Peoples, languages, cultures and worldviews are reflected in everything the university does.

As we respond to the Truth and Reconciliation Commission Calls to Action framed around supporting the research priorities of Indigenous Peoples and communities, our university has expanded Indigenous resiliency and resurgence research to resist narratives of Indigenous deficiency and disappearance. Our institution is recognized for long-term excellence in research and teaching, with programs that place Indigenous self-determination at the core of theory, research and technology development.

Through collaborative partnerships with local and regional Indigenous communities and multidisciplinary research programs, the University of Alberta will excel as an engaging, inclusive leader in decolonial and anti-colonial research, championing Indigenous leadership and self-determination in research and innovation. Building on these initiatives and accomplishments, our university is forging a path to strengthen international recognition of our excellence in Indigenous research, Indigenous-led and community-engaged initiatives and theoretical and methodological innovations.



Community through Indigenous Relationships

- More than 50 years of education and research in Indigenous Teacher Education
- Forty years of excellence in Indigenous Studies research
- Home of a Faculty of Native Studies, unique in Canada and one of the world's leading Indigenous Studies programs
- Numerous Indigenous-led and Indigenous-engaged community
 research initiatives
- \$24M Ărramăt Project supporting health and well-being of Indigenous communities and environments
- Growth in the number of Indigenous doctoral students
- Home to seven academic and affiliated institutes, centres and initiatives dedicated to Indigenous research

Indigenous Research and Innovation Directions:

- Expand Indigenous-led research capacity and foster initiatives that promote Indigenous self-determination and positively impact Indigenous community well-being.
- Encourage and resource ethical Indigenous community engagement and research.
- Broaden the capacity and impact of Indigenous research in both existing and new initiatives.
- Concretely respond and act upon the Truth and Reconciliation Commission of Canada Calls to Action, particularly, though not exclusively, through primary, secondary and post-secondary education.

AGRICULTURE AND FOOD

Sustainable agriculture, resilient food security and value-added diversification

The University of Alberta is a leader in innovative agriculture, resilient food systems, nutrition and human health and animal science. Research in environmentally sustainable resource development and management underpins our strength in climate-friendly agriculture and food, including activities related to natural resources, water, soil, biodiversity, forest and land use management, ecosystem services, cropping systems and livestock. Our multidisciplinary approach has allowed us to tackle major national challenges to optimize the sustainable use of rangelands, develop technologies (e.g., "omics"), including digital technologies to create smart agriculture systems, develop new value-added oils for health, and drive innovation in Alberta's world-recognized beef and canola sectors.

We will continue to use our expertise to shape public policy and clinical practice, such as policies to promote the provision of safe, healthy and nutritious food to children and in school food environments and defining nutritional requirements for different population groups through an intersectional lens.



Leadership in Agriculture

- More than 100 years of training and research in agriculture
- Leading innovation in 5G living lab and smart agriculture
- Ranked in the top 20 globally for UN Sustainable Development Goals of Zero Hunger and Life on Land
- · Forestry school is ranked in the top five globally
- Leading growth in digital and cellular agriculture research and innovation

Agriculture and Food Research and Innovation Directions:

- Develop a deeper understanding of, and create solutions for, resilient food systems that will improve the health of individuals, enterprises and communities.
- Develop value-added products built on sustainability principles for climate-friendly economies in collaboration with local communities.
- Critically engage with and use artificial intelligence and digital technologies to create next-generation smart agriculture and food systems and to advance forest and land use management.
- Advance the future of food from petri dish to protein, developing new industries and new sustainable, climate-smart options for consumers through cellular agriculture.

SOCIAL TRANSFORMATIONS

Advancing social betterment in the 21st century

Exploring what it means to live, learn, work, express ourselves and advance social change drives University of Alberta researchers engaged in critical, creative and empirical research. Across many fields of inquiry, we are tackling challenging questions about the diversity and interconnectedness of the human condition, through the interpretation of cultural, historical, literary, political, religious and social narratives, and by understanding societies through their legal traditions, organizational structures, pedagogical practices and creative, performing and fine arts as well as research creation.

There has never been a more urgent need for artistic, cultural, educational, legal, organizational and social sciences expertise to address global conflicts, violence and ongoing colonialism. Intersections with environmental and health crises, growing racism, high levels of transphobia, ableism, gender inequities and other forms of societal injustices are part of this complicated picture.

Our creative practices, critical analyses and local, provincial, national and international community-based interventional research continue to explore and implement social improvements for individuals and communities. We also recognize the value of community-led, industry and government partnerships for the co-creation of knowledge and solutions for local, regional, national and global challenges.



Social Responsibility through Research

- The University is a top seven global leader in achieving the United Nations' Sustainable Development Goals
- Long-term multi-million dollar funding, and multiple awards for excellence, in the histories of race, gender and colonialism
- More than 1,500 trainees involved in community service learning and research
- Significant growth in energy policy research, health law, and criminal justice and injustice
- Multiple Canada Research Chairs in critical disability studies, feminism and intersectionality, deaf education, politics of citizenship and human rights, Black global studies and decolonial practice, and educational measurement
- Internationally-recognized centres and institutes dedicated to people, community and change

Social Transformations Research and Innovation Directions:

- Advance knowledge, social innovation and public policy to tackle inequities and better address intersectional forms of social oppression.
- Deepen community-engaged research commitments, methods and impacts to collaboratively redress social injustices.
- Engage interdisciplinary, arts-based and social sciences expertise necessary to effectively address complex human behaviours in the face of the global climate crisis.
- Develop international partnerships for further research and solutions in support of the UN Sustainable Development Goals that aim to confront the most pressing issues affecting our world today.



Next Steps

This plan is a living and evolving strategic vision for research and innovation at the University of Alberta. The next steps for implementation will:

- Continue to integrate and align this plan with the implementation of the Shape: A Strategic Plan of Impact.
- Support the colleges, faculties, centres and institutes to develop their own strategic plans, including guidance on how their individual strategic plans can be integrated with this plan.
- Conduct annual reviews of progress made in achieving the goals and objectives of this plan, including measurement of key indicators.
- Review the plan, including the focus areas to address grand challenges for maximum impact, after three years.
- Support the development of a comprehensive research impact framework that recognizes the importance of assessing research impact fairly, inclusively and holistically.
- Ensure an ongoing commitment to reconciliation through engagement, dialogue and consultations with Indigenous researchers and communities.

Note on the Timeline

Our journey to sustained research and innovation excellence is measured in milestones and marked by clear targets. This vision will propel the university forward over the next five years, with specific indicators to help us chart our progress.

- One Year (2024): As we strengthen our strategic foundations, we will foster new partnerships, enhance interdisciplinary and local, national and international collaborations, and further reinforce principles of academic freedom, equity, diversity inclusion and decolonization.
- Three Years (2026): Our intended goal is a diverse research and innovation portfolio
 with global impact that addresses grand challenges and contributes to enhancing our
 societies, the economy and the environment.
- Five Years (2028): By the end of five years, we aim to establish the University of Alberta as a global leader in research and innovation in the areas of Indigenous research, agriculture and food and social transformations for advancing social betterment, in addition to creating broader and deeper local, global and national impacts in our established areas of excellence. Our success will be marked by significant contributions to policies and practices at local, regional, national and international levels, thereby enhancing our global impact.

In addition to the milestones outlined above, the Office of the Vice-President (Research and Innovation) will undertake an annual assessment of our progress in achieving the plan's key indicators.

The Office of the Vice-President (Research and Innovation) is dedicated to regular and transparent engagement with all university partners. We will not only share updates and seek feedback but also celebrate our achievements together, reflecting the shared nature of our journey.

This Strategic Plan for Research and Innovation will guide us through each step, from today's efforts to tomorrow's successes, and beyond.



commitment to multidisciplinary

collaboration, we will pursue a new

chapter in our legacy of knowledge

generation, mobilization and impact

through innovation.

Strategic Plan for Research and Innovation

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