

# KNOWLEDGE CHANGES EVERYTHING



The Université de Sherbrooke devotes its research activities to responding to society's needs and issues.

## VISION

UdeS is pursuing its objective to accelerate research development by equipping its community with the means to solve complex problems that require multidisciplinary approaches and have major repercussions on society.



## UNIFYING THEMES

RESEARCH INEVITABLY LEADS TO KNOWLEDGE DEVELOPMENT, WHICH, IN TURN, INFLUENCES PRACTICES IN SOCIETY.

Although our researchers work on varied, original projects, they do so with the same objective of accelerating discoveries that will have an impact on the population. This vision and shared values led to six clear unifying themes being identified.

These themes make it possible to group together niches of excellence on which the Université de Sherbrooke has built a reputation as an outstanding place to live, study, conduct research, and work.

## PRINCIPLES

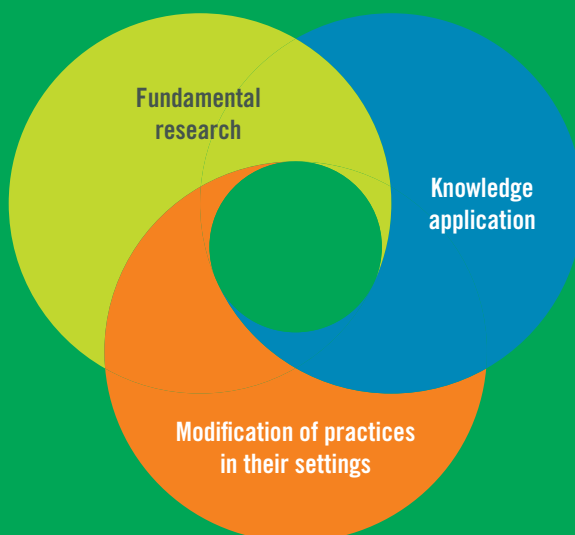
We at the Université de Sherbrooke deeply believe in free thinking. Innovation is in our DNA and positions us at the cutting edge. We innovate by thinking outside the box, taking risks, and demonstrating imagination and originality. Innovating means expressing creativity. Three basic principles serve as guides so that the research conducted can have greater impact while contributing to the shared values within our institution.

- Sustainable development
- Equity, diversity, and inclusion
- Growth in our network of high-quality partners

## DUTY

From the macroscopic standpoint, the University's duty is to provide the next generation of researchers with an experience that lights the flame of innovation in them. This is how Quebec society will significantly contribute over the years to major social and technological advances.

By fostering the acquisition of transversal skills and knowledge that can be connected to pivotal moments in life in society, we promote the desire to contribute boldly and confidently to discovering solutions for the major issues facing us.



---

## The Environment and Climate Change

Contribute to implementing economical and sustainable solutions to societal and ecological problems.

*Sustainable development. Sustainable infrastructure and advanced materials. Environmental, social, and economic aspects associated with the use of natural resources. Geomatics. Ecology and ecosystems. Hydrology. Energy efficiency.*

---

## Digital Age: Intelligent Organizations and Training

Support the updating of large systems—education, employment, and communications—in response to the rapid growth and accessibility of digital technologies.

*Cultural, educational, and technological aspects of the digital era. Use of social media. Digital literacy. School success and perseverance. Artificial intelligence. Teaching and learning. Open data. University pedagogy and teaching training. Economy and the tax system. Integrated and intelligent systems. Ethics and private life. Responsible management.*

---

## Innovative Materials/Processes and Quantum Science

Be a key player in the quantum and technological revolution by serving as the bridge between fundamental research and applied sciences.

*Information and quantum mechanics. Nanotechnologies and technological innovations. Computer security. System automation. Composites and advanced materials. Development of innovative materials. Medical imaging. Information processing. Artificial intelligence. Microelectronics. System miniaturization and performance improvement. Quantum technologies. Infrastructure security.*

---

## Health: Promotion, Prevention, and Precision Approaches

Promote personalized and interdisciplinary approaches in implementing programs, services, and policies aimed at keeping people healthy.

*Mental and physical health. Biological and social determinants of health. Organizational health. Risk behaviors. Health-care organization. Health ethics and legislation. Prevention and health promotion. Rehabilitation. Primary health care. Interdisciplinary and integrated health-care approaches. Maladjustment and social intervention. Neuroscience, pharmacology, microbiology, endocrinology, genomics, medical imaging, etc. Basic understanding of biological mechanisms.*

---

## Population Aging

Extend the social and active participation of seniors by addressing the prevention of chronic diseases and cognitive decline.

*Life-span approach to aging. Active aging. Healthy lifestyles. Adapting to the living setting and society. Ethical, economic, and legal aspects of aging. Chronic diseases associated with aging. Independence. Environment and adapted services. Neuroscience and cognition. Individuals in vulnerable situations. Life trajectories.*

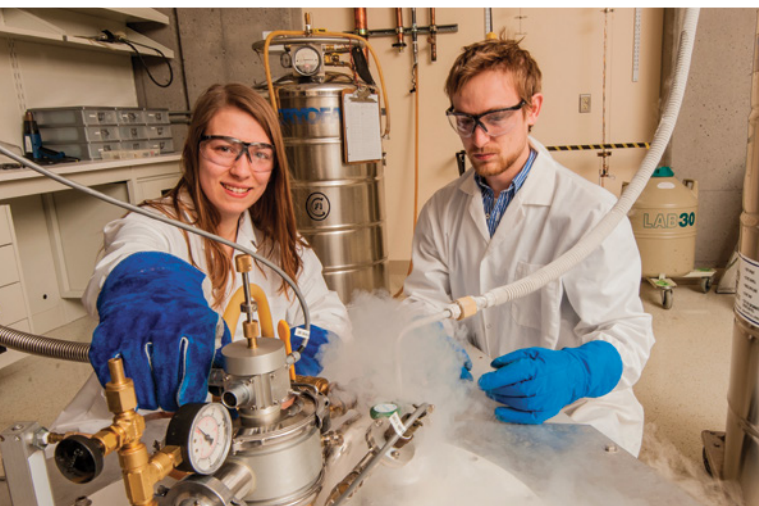
---

## Togetherness: Culture, Plurality, Governance, and Equity

Ensure equity in living and work environments as well as within public services.

*Diversity. Vulnerable populations and clientele. Social and political organization. Social governance. Publishing and reading. Ethics. Secularism and religion. Plurality. Minority groups. Sex and gender. Interculturalism. Cultures and cultural knowledge. Social cohesion. Normativity. Dispute prevention and resolution. Quebec literature. French language and francization. Social services. Responsible management. Public policy.*





As a major research university recognized for the originality of its programs, UdeS engages with its communities to shape responsible citizens who change the world.