

Center for Research and Innovation in Civil Security (Centre-RISC)

Campus Notre-Dame-de-Foy

📍 Saint-Augustin-de-Desmaures, QC



ABOUT Centre-RISC

The Centre de recherche et d'innovation en sécurité civile du Québec (Centre RISC) is an applied research and transfer center recognized by the Quebec government as a college technology transfer center (CCTT) and by the Natural Sciences and Engineering Research Council of Canada (NSERC) as a Technology Access Center (TAC). Its mission is to support innovation and improvement of practices in the sectors of civil security and emergency response. By providing research and development coaching, training, and knowledge transfer activities and support services, the RISC Center positions itself as a leader in the deployment of a culture of innovation in emergency safety.

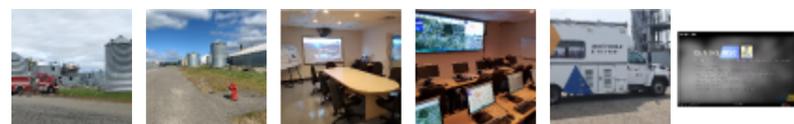
The RISC Center has a team drawn from the practical and scientific communities, offering unique expertise in its three fields of intervention and in the four dimensions of civil security (prevention; preparation, intervention and recovery).

The Center is attached to the Notre-Dame-de-Foy Campus (CNDF), the only college institution in Quebec to offer a full range of programs in the field of civil security. It has unique infrastructures: a multidisciplinary experimentation site, a pedagogical center for emergency measures coordination and a mobile command post serving as a research unit.



Fire truck for fire safety training, fire simulation containers and grain silos at the Multidisciplinary Experimental Site to hold large-scale simulation exercises.

Credit: RISC Center



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RESEARCH AND INNOVATION EXPERTISE

EXPERTISE

1. Improvement of intervention performance
2. Analysis of anthropic and natural risks
3. Integration of technologies in emergency preparedness
4. Strengthening community resilience during a crisis situation
5. Improving the safety of citizens and responders
6. Impacts of climate change on hazard risks
7. Simulations and practical exercises in emergency preparedness

Previous Research Projects

- Analysis of work of first responders in pandemic crisis management
- Development of guidelines for the structured evacuation of seniors with disabilities in seniors' residences and long-term care facilities
- Ethical issues related to the use of video technology for 911 calls
- Support for the development of a visor for firefighters that integrates augmented reality
- Social acceptability and sense of security related to a containment bar
- Debriefing for the November 2019 fall storm
- Development of training on fire cause and circumstance investigation
- Development of training on the fire resistance of wood structures
- Study on weather conditions conducive to wildfires
- Support for the development of an educational application for paramedics
- Ocellus: deployment of a technology-based fire station service that provides emergency decision support services to municipalities using drones.
- Best practices to reduce firefighters' exposure to contaminants
- Safety diagnostics

Fields of projects

- Civil Security
- Emergency Response
- Interoperability / Interprofessional Collaboration
- Smart City
- Environment

