

CYBERSECURITY

PROFILE OF THE UNIVERSITÉ DE SHERBROOKE

- Location: **Sherbrooke, Quebec**
- Founded: **1954**
- Research groups: **120**
- People working in research: **6 112**
- Total research income: **205,2 M\$**
- Faculties: **8**, including **5** working on different aspects of cybersecurity
- Students: **31 622**

The **Université de Sherbrooke** is a leader in research and innovation in the field of wireless telecommunications. It conducts various research projects and innovative knowledge transfer to develop technological solutions in cybersecurity.



WHAT SET US OUT

- Applied research according to the needs of our partners, a culture of partnership ranging from co-op interns to postdoctoral students.
- Knowledge transfer to workplace professionals and complementary expert training.
- Interdisciplinary team from the School of Business and of the faculties of Law, Engineering, Medicine and Health Sciences, Humanities and Sciences.
- Availability of infrastructures to test cybersecurity innovations, such as the 5G network and high-performance computers.
- Ability to respond to partners' needs on current and future cyber security issues with a comprehensive and in-depth understanding of the field.

SPECIALIZATIONS IN CYBERSECURITY

- Cyber attacks in power generation and distribution systems
- Management of the internal threat and associated financial crime
- Digital identity management
- Evolution of Cryptography in a Quantum Era
- Advanced intrusion detection techniques
- Training in governance, audit, and security by the School of Business
- Training of professionals in this field through the multiple programs of the Information Technology Training Center (CeFTI) and its Cyber Security Summer School

CORPORATE PARTNERS

- National Bank
- Desjardins
- Cybereco
- Deloitte
- Sherweb
- Hydro-Sherbrooke
- GoSecure
- Interdisciplinary Research Group in Health Informatics (GRIIS)
- Menya Solutions
- IBM

KEY FACILITY

PINQ (DIGITAL AND QUANTUM INNOVATION PLATFORM)

A high-performance computing infrastructure complemented by access to a set of professional software solutions and highly qualified human resources, with a focus on fostering partnerships between industry and universities/CEGEPs.

KEY EXPERTISES

- **Chamberland-Tremblay, Daniel:** Business intelligence, security management
- **Frapplier, Marc:** Intrusion detection system, formal methods in software engineering, access control, vulnerability testing
- **Girard, Gabriel:** Security systems
- **Guillemette, Manon Ghislaine:** Cybersecurity governance, ethics and data, human aspects of cybersecurity
- **Kabanza, Froduald:** Artificial intelligence, detection of a cyber attacker's intention, intrusion detection system
- **Loiseau, Hugo:** Cybersecurity, cyberspace, societal impacts
- **Mailhot, Frédéric:** Digital circuit security, secure network protocols, authentication
- **Mignault, Patrick:** Corporate governance, technological risk management, financial sector regulation
- **Moïse, Alexandre:** Cognitive systems for cybersecurity, information visualization, situational awareness
- **Nganyewou Tidjon, Lionel:** Intrusion detection system, formal methods
- **Oulai, Arthur:** Legal aspects of cybersecurity, protection of personal information, dispute resolution
- **Roy, Sébastien:** 5G, Secure encryption, physical layer security
- **Tardif, Pierre Martin:** Intrusion detection system, artificial intelligence, time series
- **Touchette, Dave:** Impacts of quantum on cybersecurity, cryptography, quantum cryptography
- **Zhang, Jianhai:** Artificial intelligence, signal processing, time series

CONTACT

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