

Brief

2017 Pre-Budget Consultations

Presented By:

École Nationale en Sécurité Intégrée du Québec (ENSIQ)

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ENSIQ
1011 Sherbrooke Street
Magog, Quebec
J1X 2T2
<http://www.ensiq.ca>

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Executive Summary

The purpose of this document is to familiarize you with the Quebec national school of integrated security (ENSIQ), its vision, its mission, the security context and its various components, which include a research and development (R&D) laboratory, various security trainings and a technology test bench. Our school wants to become the only centre of expertise in Canada for private, public and national security and offer training that will meet the highest standards and teach security workers best practices. Our centre will develop training in areas such as security threat and risk analysis, emergency management planning, terrorism and cybersecurity.

The goal is to get experts and security industry and government stakeholders to work together in an industry cluster to develop training courses that will help to enhance the skills of security workers.

With our state-of-the-art facilities, users will have the opportunity to develop Canadian innovations in our R&D laboratory or simply come test them at our technology test bench. These innovative products can then be marketed nationally and internationally. Here are some areas of research that will be a focus: crisis management, emergency and outreach measures, systems integration and the development of security technology, terrorism response planning, and threat- and risk-management analysis.

Our school will benefit the Government of Canada by enhancing the skills of private sector security workers so that they complement those of public security workers and by optimizing the security of critical infrastructure through innovative products designed in our R&D lab. Our project will also have a positive impact on the Canadian economy and that of the riding of Brome–Missisquoi through the development of Canadian innovations.

Background

The national security school was designed to deal with the growing threats that our society is facing, including terrorism, cyberthreats and natural disasters. Now is the time to get security stakeholders in the public and private sectors involved so that we can raise security standards and improve skills in the field. We want to develop best practices and training for emergency management planning, threat and risk analysis, and crisis and event management so that all stakeholders can respond in the most appropriate way before, during and after any incidents.

What will be the next major crisis to hit the country? It could be:

- A natural disaster
- A terrorist attack
- A cyber-attack

If the trend of using private security workers and giving them more responsibility in our social system continues, it will be vital that we improve industry standardization and help private security workers to enhance their skills. Our governments would then be able to delegate some security functions that are usually carried out by public security workers to private workers because they would meet the desired and expected performance standards. Public safety in general would improve if our private sector met all of the new government standards and our security workers had increased knowledge and skills.

What is more, our governments encourage the development and protection of new security-related technology and applications by local businesses in order to maintain a strategic economic, military and industrial advantage.

The Canadian government can help us to take the first steps, which involve implementing the necessary training and developing new security technology.

Vision and Mission

Vision:

- To make the Canadian school a world leader in training on emergency management planning, threat and risk analysis, awareness of international terrorism, cybersecurity, and crisis and event management for command and control centres (smart systems).
- To be a leader in R&D in the security sector and improve the security of organizations through the development of new leading-edge technologies.
- To help security stakeholders make the right decisions and help people live in a safer environment through ENSIQ's new innovations, applications and training courses.
- To offer a broad spectrum of training, including high school to doctorate level courses, continuing education, and online courses, and to be on the constant look out for best practices. All of the training courses will be held in a practical environment where participants will be able to work in the R&D lab and practice their new skills at the technology test bench.

Mission:

- To offer solid and unique training to decision-makers and all stakeholders when it comes to crisis management and emergency management planning.
- To offer R&D laboratory facilities in partnership with businesses to stay on the leading edge of technology: test benches, technology transfer, networking, personnel selection, international conventions, etc.
- To provide a technology test bench that will make it easier to try out the new technological advances developed in our R&D laboratory. The command centre will also serve as a human lab to assess how effective existing procedures are and improve call management and reactions in times of crisis.

Target Clientele and Partners

Target clientele

The ENSIQ's target clientele are:

- Public organizations: the Government of Canada, provincial and municipal governments, Hydro-Québec, Hydro One, Canadian airports, marine ports, public hospitals, etc.
- Private companies (security, mining, oil and gas, etc.)
- Any company that wants to develop a product or concept or integrate its security systems
- Private security companies (operational management services)
- University, college and high school researchers
- Command and control centres
- Canadian and foreign students
- Workers in the field: emergency management coordinators, security system operators and managers, security officers who work at command centres, etc.
- Private companies that employ security system operators and managers to train their employees and hire new ones

Training

The ENSIQ will thus become a world-renowned school for training private security workers at various levels and government employees with official mandates. For example, we could be given the mandate to provide training to make workers more aware of terrorism and help them to know how to react to a threat facing a Canadian representative abroad.

Here are some examples of training topics:

- Threat and risk analysis
- Emergency management planning
- Terrorism awareness
- Crisis and event management
- Diploma for remote surveillance operators
- Certification for integrated security technicians
- Business security (various courses)
- Information security
- Public safety and natural disasters
- Customized training.

Research Programming

Our research will allow the security sector to keep pace with technological advances and respond more effectively when managing a crisis, making decisions and communicating with various stakeholders.

Areas of research

- Crisis management, emergency and outreach measures
- The sharing of sensitive information between police forces and private organizations
- Systems integration and the development of security technology
- The impact of private security on public security and industry standardization
- IT security
- The use of social media platforms in crisis management
- Cybersecurity
- Terrorism and emergency response plans

R&D laboratory

From its laboratory, the ENSIQ will coordinate R&D projects with the help of various public institutions, private sector partners, students and researchers. By developing our unique and innovative centre of expertise, we also hope to build strong ties with colleges and universities in Canada and abroad.

The lab will develop new management platforms and applications that will make it possible to integrate new and existing security systems and equipment.

The lab could also be made available for information security testing and development so that innovative penetration testing products and encryption technologies can be developed.

Our laboratory will also be used as a business incubator for R&D and security companies.

- Physical security
- Information security
- Systems integration
- Development of effective new procedures for crisis and event management.

Services offered at the lab

- Coordination of R&D projects with industry partners and government
- Support for the development of new technology by students and partner companies
- Integration of various security systems and equipment
- Incubation of new R&D and security businesses
- Support for the marketing and export of products and services
- Maximizing use of security technology

Technology Test Bench

The ENSIQ will be home to a technology test bench that will be used to:

- Test the various products developed in the R&D lab;
- Implement new protocols and procedures related to public, private and national security;
- Provide students with hands-on training; and
- Test any new technology or systems developed in the R&D lab before they are marketed (beta room).

The test bench will include actual workstations for command centre operators who can provide services to public institutions in the community that will help them to enhance and centralize their security and thus reduce operating costs.

Benefits

The Government of Canada

- The federal government will benefit from a centre of expertise where all security experts can meet and contribute to national security and Canada's economic development.
- The centre will help to maximize the security of critical infrastructure and public facilities.
- Tools for specific government needs can be developed at our facilities.
- The federal government will benefit from the development of expertise in the security sector.
- It will also benefit from the fact that the skills of private sector security workers will complement those of public security workers.

Riding of Brome–Missisquoi

- This structuring project aligns with Memphrémagog's municipal and regional economic development and diversification strategy. From the outset, Magog Technopole and the Town of Magog have supported the development of the ENSIQ in Magog. We hope to become the very first national school that will act as a liaison between private industry and public institutions in terms of training in order to get them to work together as much as possible and thus better protect Canada.

The creation of the school will bring the security industry, our public institutions, researchers and students together for the first time and offer a single-window centre of security expertise. Users and stakeholders will be able to receive training from experts in our state-of-the-art facilities and use our lab to integrate and develop new products.