

CSE AT A GLANCE

As Minister of National Defence responsible for the Communications Security Establishment, you are accountable for our national roles in:

CYBER SECURITY

CSE actively defends Canadian government networks, and helps protect other networks that you designate as important to the Government. CSE provides national leadership as the Canadian Centre for Cyber Security, including a role as the national Cyber Emergency Response Team (CERT).

FOREIGN INTELLIGENCE

CSE is the leading provider of foreign intelligence to Government clients, and the national authority for signals intelligence. Foreign intelligence activities are guided by the Cabinet-approved set of priorities.

FOREIGN CYBER OPERATIONS

CSE has a broad mandate for foreign cyber operations in support of Canada's international affairs, defence and security, including cyber security. CSE's advanced technical capabilities and operational expertise are also used to support DND/CAF, CSIS and RCMP in the conduct of cyber operations under their respective mandates.

WHO WE ARE

PERSONNEL

- CSE has about 3,000 employees, among the best and brightest in Canada, over half of whom are engineers, computer scientists, cyber security specialists, mathematicians, cryptanalysts, linguists, physicists, data and intelligence analysts.
- CSE was named one of Canada's top employers for young people from 2017 to 2021.
- In the most recent Public Service Employee Survey results our employees ranked CSE higher than the rest of the public service in innovation (by 15%), pride in work (by 15%), and psychologically healthy workplace (by 11%).
- With a few exceptions, CSE employees are posted in Ottawa, split between a modern, open-concept, high security, special purpose workspace and a new facility in Vanier, which houses mainly Cyber Centre employees, allowing for greater capacity for cyber security research and engagement with the private sector.

BUDGET

- CSE's estimates for its "Total Authorities" budget in 2020-2021 is \$794 million.

WHAT WE DO

WE ARE FOREIGN INTELLIGENCE

- We support you and other Cabinet Ministers by providing assistance to Canadian military missions abroad, offering insights about issues of global importance, and uncovering foreign-based threats such as extremists planning to carry out attacks against Canadian interests and malicious cyber threats against Canadian networks.

WE ARE CYBER SECURITY

- We deliver world-class defence of Canadian government networks, routinely blocking over a billion malicious cyber attempts per day. We have the authority to use our expertise to assist Canadian critical infrastructure. We provide custom advice and guidance to a wide range of Canadian entities about specific threats, help respond to major incidents, and raise public awareness through outreach and national cyber security campaigns.

WE ARE TRUSTED ADVISORS

- We provide technical and operational assistance to CAF/DND, CSIS and RCMP where CSE's costly and hard-won capabilities or expertise can be employed, reducing duplication and improving cost effectiveness. All assistance is provided under the authorities of the requesting agency and subject to the same restrictions as apply to the requesting agency.
- We support a broad range of partners (industry, academia, provinces and territories, allies), promote cyber security, and protect critical infrastructure. For example, under CSE's Security Review Program, we work with telecommunications providers, vendors and private sector labs to help mitigate risks in designated wireless equipment and services, including Huawei.

HOW WE DO IT

LEADING-EDGE TECHNOLOGICAL EXPERTISE

- CSE has the largest concentration of supercomputers in Canada, and is home to the Tuttle Institute for Mathematics and Computing, a world-class Top Secret mathematics and computing institute.
- CSE is a thought leader and pathfinder in emerging digital and cyber technologies, with a research program focused on quantum cryptography, advanced analytics, maintaining covert operations and detecting hostile state actor campaigns. CSE's expertise is harnessed to inform Government policies on emerging technology, ranging from 5G to artificial intelligence and quantum.

LEGAL AUTHORITIES AND CAPABILITIES

- CSE has up-to-date legislation and operates within a robust oversight and review regime. The CSE Act will be reviewed in 2022.

ENGAGEMENT WITH KEY STAKEHOLDERS

- CSE is a trusted and contributing partner within the Five Eyes community. In return, CSE acquires information, capabilities and tradecraft that would not otherwise be available to Canadian cryptologic practitioners.
- CSE engages with over 2000 Government of Canada clients in more than 20 departments.
- CSE collaborates with the private sector to innovate new solutions.

