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Duty Location: **BEL, Mons**

## **JOB DESCRIPTION**

### **Engineer (Gateway Security)**

#### **NATO Cyber Security Centre – Infrastructure Branch**

Grade: **G15**

This is a position within the NATO Communications and Information Agency (NCIA), an organization of the North Atlantic Treaty Organization (NATO).

The NCIA has been established with a view to meeting to the best advantage the collective requirements of some or all NATO nations in the fields of capability delivery and service provision related to Consultation, Command & Control as well as Communications, Information and Cyber Defence functions, thereby also facilitating the integration of Intelligence, Surveillance, Reconnaissance, Target Acquisition functions and their associated information exchange.

The NATO Cyber Security Centre (NCSC) is responsible for planning and executing all lifecycle management activities for cyber security. In executing this responsibility, NCSC provides specialist cyber security-related services covering the spectrum of scientific, technical, acquisition, operations, maintenance, and sustainment support, throughout the lifecycle of NATO Communications and Information Systems (CIS). The NCSC enables secure conduct of the Alliance's operations and business in the context of NATO's C4ISR. The NCSC provides cyber security services to NCI Agency customers and users, as well as to all other elements of the Agency; this includes all Service Lines, Programme Offices, CIS Support Units/Elements, and the Agency Ops Centre. The NCSC is responsible for providing the broad spectrum of services in the following specialist security areas: CIS Security, Cyber Defence, Information Assurance, Computer Security and Communications Security. In executing its responsibilities, the NCSC provides support to the development and implementation of cyber security-related policy, strategy, and provides lifecycle security risk management services for all NATO CIS. The NCSC leads in the development of new capabilities and innovation in cyber security. The NCSC incorporates and provides specialist services to prevent, detect, respond to and recover from cyber security incidents.

The Infrastructure Branch delivers a suite of enabling services in the specific areas of Cryptography, Identity Management, Technical Services (supporting CS Operations) and CIS Protection. These services include integration and validation of NATO's crypto solutions, lifecycle management of cryptographic equipment and keys, operation and logistic support for NATO-wide online and offline cryptographic equipment, identity management services, gateway services, specialized enterprise-wide CS infrastructure (including NCSC elements), applications, implementation, configuration and management of NATO Enterprise-wide endpoint security software.

The Gateway Security Services (GSS) Section facilitates and accounts for all lifecycle aspects of Boundary Protection Components deployed within and on the edge of NATO networks in order to protect key NATO information while allowing NATO staff to work securely and process their information.



**Duties:**

Under the direction of Section Head, Gateway Security Services, the incumbent will perform duties such as the following:

- Support SLA activities and project implementations in all areas of network and security devices (including on-premises and cloud-based), such as:
  - Central administration and tool management of Boundary Protection and Gateway services such as Firewalls, Network Intrusion Detection and Prevention Systems (NIPS), Full Packet Capture devices, Data Diodes or Mail Guards;
  - System staging and configuration;
  - Firewall and NIPS policy development and tuning;
  - Data-Diode configuration.
- Management, maintenance and configuration of appliances and software applications for Information Exchange Gateway / Cross Domain Security systems, including network security devices to ensure continuing functionality and availability;
- Provide technical support (either on-site or at remote locations) in troubleshooting infrastructure and operational issues and collaborating with other teams for a successful resolution;
- Perform the analysis, design, implementation and maintenance of authorised software changes and the integration/tailoring of vendor supplied components, following established procedures for quality, configuration control, testing, documentation and security;
- Collaborate with the Infrastructure Management and Cyber Security teams;
- Provide cyber security advice and analyse support requirements as required;
- Participate in the investigation of Security Events to identify and remediate security incidents;
- Act as Subject Matter Expert and possibly lead technical aspects in service delivery, transition and implementation;
- Investigate and propose long-term solutions countering equipment and configuration problems;
- Provide extended working hours support and on-call availability as required;
- Update and review documentation for relevant system changes;
- Represent Gateway Security Services in meetings and conferences;
- Deputize for higher graded staff, if required;
- Performs other duties as may be required.

**Experience and Education:**

- A minimum requirement of a Bachelor's degree at a nationally recognised/certified University in a related discipline and 2 years post-related experience; Or exceptionally, the lack of a university degree may be compensated by the demonstration of a candidate's particular abilities or experience that is/are of interest to NCI Agency, that is, at least 6 years extensive and progressive expertise in duties related to the function of the post;
- Experience of cyber security activities and support in large, complex enterprise environments;
- Strong knowledge and experience of Boundaries Protection Devices including firewall installation and management;

- Strong knowledge and experience in Network-based Intrusion Prevention System (NIPS) technologies, including detection techniques such as signature-based detection, statistical anomaly-based detection etc);
- Strong network knowledge and ability to create documentation including diagrams and processes;
- Good knowledge in the administration and concepts of full packet capture , mail and web guards, data diodes, proxies or other network security devices;
- Experience and sound knowledge of Computer and Networks Security principles and procedures;
- Comprehensive knowledge of the principles of computer and communication security, LAN/WAN networking including protocol network architecture, and the vulnerabilities of modern operating systems and applications;
- Proven capability of converting evolving operational requirements into Information Systems requirements;
- Good Communication skills, both verbal and written.

**Desirable Experience and Education:**

- Strong experience of Unix/Linux and Microsoft Operating system administration;
- Software engineering including programming and/or scripting knowledge (python, shell scripting, PowerShell);
- Possession industry leading certification in the area of Cybersecurity such as CISSP, CISM, CISA, SANS GIAC;
- Knowledge of NATO responsibilities and organization, including ACO and ACT;
- Prior experience of working in an international environment comprising both military and civilian elements.

**Language Proficiency:**

- A thorough knowledge of one of the two NATO languages, both written and spoken, is essential and some knowledge of the other is desirable.
- **NOTE:** Most of the work of the NCI Agency is conducted in the English language.

**Competencies or Personal Attributes:**

Relating and Networking - Easily establishes good relationships with customers and staff; relates well to people at all levels; builds wide and effective networks of contacts; uses humour appropriately to bring warmth to relationships with others.

Adhering to Principles and Values - Upholds ethics and values; demonstrates integrity; promotes and defends equal opportunities, builds diverse teams; encourages organisational and individual responsibility towards the community and the environment.

Delivering Results and Meeting Customer Expectations - Focuses on customer needs and satisfaction; sets high standards for quality and quantity; monitors and maintains quality and productivity; works in a systematic, methodical and orderly way; consistently achieves project goals.



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Achieving Personal Work Goals and Objectives - Accepts and tackles demanding goals with enthusiasm; works hard and puts in longer hours when it is necessary; seeks progression to roles of increased responsibility and influence; identifies own development needs and makes use of developmental or training opportunities.

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