



NATO UNCLASSIFIED

Duty Location: **Brunssum, NLD**

JOB DESCRIPTION

Senior Technician (Electronic System Operations and Maintenance)

Chief Service Operations – CIS Sustainment Support Centre

Grade: **G 10**

This is a position within the NATO Communications and Information Agency (NCI Agency), an organization of the North Atlantic Treaty Organization (NATO). To strengthen the Alliance through connecting its forces, the NCI Agency delivers secure, coherent, cost effective and interoperable communications and information systems in support of consultation, command & control and enabling intelligence, surveillance and reconnaissance capabilities, for NATO, where and when required. It includes IT support to the Alliances' business processes (to include provision of IT shared services) to the NATO HQ, the Command Structure and NATO Agencies.

The Chief of Service Operations (CSO) is accountable to plan, install, operate and maintain Communication and Information System (CIS) services throughout the allocated Area of Responsibility (AOR), in static NATO Headquarters, Alliance Operations and Missions and Exercises, and supported Organisations. Service Operations are delivered and managed in close coordination with the Directorates of Applications Services, Infrastructure Services, AirC2 Services and Ballistic Missile Defence (BMD) Services. CSO and the CIS Support Units (CSU) receive support from the Agency's Enabler functions (General Services, Human Resources, Finance, and Acquisition). The CIS Sustainment Support Centre (CSSC) provides Engineering, Logistical, technical advice to NCI Agency service lines and customers and operational support services to include deployable CIS logistics sustainment capabilities in support of operations and exercises while the CSUs deliver the installation, operation, maintenance, protection, cyber security and support of CIS systems to provide services within the AOR and as defined in Service Level Agreements (SLAs) and other agreements.

CIS Sustainment Support Centre, located in Brunssum (installs, operates, maintains, upgrades, modifies, refurbishes, and supports the full range of CIS capabilities during peacetime, crisis and war throughout its allocated Area of Responsibility (AOR) and as otherwise) directed. The CIS Sustainment Support Centre (CSSC) is the Agency's single, centralized asset management and repair facility for all static and deployable systems, including deployed life support equipment (Power Generators, Environmental Climate Units, and Shelters). This organization supports through lifecycle management activities across all Service Lines and enables the sustainability of systems through both logistics and technical design and support activities. CSSC acts as the Release and Deploy Manager/Coordinator on all static and deployable CIS assets for all Service Lines.

The Engineering and Maintenance Branch (EMB) provides full-spectrum, lifecycle sustainment of NATO deployable and static CIS. It supports all associated NATO-owned CIS employed on operations, exercises, projects and static installations. Such support includes, CIS Transmission Systems (Satellite & Radio), Networking & Information Systems (all NATO Core Network Infrastructure), Electronics Maintenance and Testing (Test Equipment, Unified Electromagnetic Environmental Effects (UE3) and TEMPEST) as well as CIS Support Equipment (Power Generation & Electrical Equipment, Shelter & Environmental Conditioning). The Branch is also responsible for development, construction, installation, replacement, modification, repair and refurbishment, maintenance, testing and decommissioning of deployable, static, and maritime CIS and supporting equipment throughout the NATO Area of responsibility (AOR). Sustainment support is delivered from a central CIS sustainment facility as well as on-site for associated static-site and deployed CIS.

The Electronic Maintenance and Testing Section (EMTS) conducts repair, maintenance, acceptance testing and decommissioning of CIS Test Equipment (TE), support of shielding effectiveness testing (CIS Shelters, TEMPEST Enclosures, SATCOM Sites and Allied Command Operations (ACO) Bunkers) covered by the Unified Electromagnetic Environmental Effects (UE3) protection program and TEMPEST Testing in support of Commercial-Off-The-Shelf (COTS) data processing equipment.

Duties:

Under the direction of the principal technician of UE3, the incumbent will perform duties such as the following:

- Organizes, leads, plans, directs, controls, and coordinates all work in the Shielding Effectiveness (SE) testing of deployable, static, and maritime CIS related to the UE3 program.
- Responsible for directing and guiding all installation, modification, on-site surveys, certification and maintenance of the entire Electromagnetic Environmental Effects (E3)-protection such as power line filters, signal line filters, INFOSEC/TEMPEST filters and other NATO owned equipment and installations in accordance with international, host nation and NATO regulations.
- Organizes maintenance on all NATO-wide shielded Radio Frequency (RF) enclosures and executing light mechanical works on metal and other materials, as well as shielded apertures such as doors, wave guides, honeycomb filters, etc.
- Monitors and evaluates contractor work and interventions for work carried out on E3 protection devices and systems.
- Executes and controls surveys and measurements on H&S issues related to E3 and electrical safety.
- Conducting on-site surveys of E3 protection systems and devices at War Headquarters (WHQ), mobile shelters, anechoic test chambers, communication sites and other facilities.
- Responsible for on-site shielding effectiveness testing according to applicable standards and directives standards on RF shielded doors, honeycomb filters, waveguides, signal and power line filters (including insertion loss testing).
- Provides assistance in evaluating design deficiencies and modification proposals on installations and systems.
- Assists in establishing and maintaining NCI Agency E3 related technical procedures, making analyses and recommendations for their improvement and assuring that procedures are duly updated, valid and adequate to be used by the team for executing the assigned mission.
- Provides recommendations for replacement and/or additional equipment required to execute technical tasks assigned.
- Prepares and records maintenance/test reports and studies.
- Maintaining the NCI Agency UE3 Data Base, as well as the regular administrative files, including keeping records of all spare parts utilized and updating the team's spare parts stock.
- Contributes to the planning, making necessary arrangements with the responsible officers of units/sites to ensure an efficient accomplishment of the mission and obtain clearances for radiated test frequencies.
- Deputize for higher grade staff, if required;
- Performs other duties as may be required.

Experience and Education:

- Vocational training at a higher level in RF Electronics and Radio Communications Engineering or relevant discipline with 2 years of post-related experience; or a secondary educational qualification with 4 years post-related experience.
- Knowledge of electromagnetic shielding associated with measurement analysis techniques and principles of electromagnetic/ radio frequency technology.
- Knowledge in applying Electrical safety testing conform EU norm EN 50110 or equivalent national norm (NEN 3140).
- Knowledge about various earthing and grounding concepts of static and deployable installations.

Desirable Experience and Education:

- Valid national driving license for car and light vehicles, equivalent to European driving license type B.
- Good knowledge of electromagnetic pulse and lightning protection, antenna and wave propagation, electrical distribution and safety measures. Basic knowledge of Pneumatic Control systems.
- Organizational: Coordination and communication skills.
- Familiarization with RF filter methodology (e.g. TEMPEST, INFOSEC, EMP and EMI).
- Proficient in reading and understanding technical documentation.
- Background in CIS support and/or maintenance with an understanding of CIS systems
- Experience with electromagnetic environmental effects, power line filters and shielded enclosures engineering associated with CIS facilities.
- Extensive experience with respect to reading and understanding wiring diagrams, logic circuitry, flow charts, schematic drawings and technical data sheets.
- Experience in handling sensitive measurement devices (e.g. spectrum analyser, shielding effectiveness test system).
- Willingness to study and implement the latest technical developments.
- Prior experience of working in an international environment comprising both military and civilian elements.
- Knowledge of NATO responsibilities and organization, including ACO and ACT.

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 NCIA is conducted in the English language.

Competencies or Personal Attributes:

- Deciding and Initiating Action - Takes responsibility for actions, projects and people; takes initiative and works under own direction; initiates and generates activity and introduces changes into work processes; makes quick, clear decisions which may include tough choices or considered risks.
- 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.
- 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.
- 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.