Job Title: Galileo G2 Ground Segment Security Engineer

Requisition ID **10881** - Posted **01/02/2021**

EUROPEAN SPACE AGENCY

Vacancy in the Directorate of Navigation.

ESA is an equal opportunity employer, committed to achieving diversity within the workforce and creating an inclusive working environment. Applications from women are encouraged.

Post
Galileo G2 Ground Segment Security Engineer

This post is classified A2-A4 on the Coordinated Organisations' salary scale.

Location
ESTEC, Noordwijk, The Netherlands

Description
Galileo G2 Ground Segment Engineer in the Galileo Second Generation System Security Service Unit, Galileo 2nd Generation Project Office, Galileo Programme Department, Directorate of Navigation.

Duties
You will be responsible for overall activities related to Ground Segment Security Engineering in the Galileo Second Generation, including the definition and consolidation of requirements, as well as their verification, validation, qualification and certification. You will establish and coordinate activities within the Programme and with industrial consortia, and liaise with Agency internal and external entities in the development of your duties.

Within the project boundaries and constraints, and under the supervision of the Head of the Galileo Second Generation System Security Services, the responsibilities of this post include:
- Leading the definition, analyses and consolidation of Ground Segment security requirements. This includes classified and unclassified aspects for which a tight coordination with the G2G System Engineering Services will be required;
- Supporting the implementation of overall security engineering for the G2 Ground segment, including security requirements flow-down, implementation follow-up, security operations engineering and maintenance of the Galileo Evolutions Mission Security Baseline;
- Supporting the correct implementation and technical end-to-end consistency of the security requirements at Ground Segment level;
- Supporting the definition and maintenance of the security technical (functional, performance, operational) requirements applicable to the procurement of the Ground Segment infrastructure, and ensuring their overall traceability;
- Supporting the definition of the G2 Ground Segment verification, validation, qualification and certification activities, in support to the overall qualification of the security requirements at System level;

Duties continued
• Contributing to the G2G system architecture and operations concept;
• Supporting the Agency's interaction with the National Expert Team Working Group, TEC WG, the SPECIAL PRS WG and the Security Accreditation Panel (GSAP);
• Supporting the G2G engineering and procurement activities relating to security equipment for the G2 Ground Segment;
• Supporting the design and procurement of the G2G Security Monitoring infrastructure and its deployment and operations service readiness in coordination with the Galileo Ground Segment Management Offices;
• Participating in the definition and consolidation of the Security Monitoring specifications to support procurement of the associated ground (and space) segment infrastructure;
• Organising and leading the segment design reviews (PDRs and CDRs) and qualification phase reviews (QRs) in order to steer the end-to-end engineering cycle;
• Supporting operations for fast adoption of the G2 security monitoring system;
• Supporting G2G Cyber Security activities;
• Supporting definition of G2G System Penetration Tests and Security Audits;
• Supporting preparation of G2G core infrastructure accreditation;
• Supporting preparation of documentation required by the SAB for the accreditation process;

• Supporting implementation of the G2G Advanced PRS IOC and FOC Services, including completion of the associated system infrastructure and service milestones as well as the corresponding service validation activities;
• Generating lessons learned and contributing to Knowledge Management initiatives in the Directorate of Navigation;
• Supporting R&D activities under the Galileo 2nd Generation Project, EGEP, H2020 & Horizon Europe Programmes.

In the execution of your tasks, you will coordinate an industrial support team and cooperate closely with the other team members working on System Security design and verification. You will also cooperate with Space Segment, Ground Segment, Operations support and other teams in the Directorate of Navigation, the Technical Directorate and ESA.

Technical competencies
Knowledge and Experience in System Engineering, with focus on Ground Segment
Knowledge and Experience in Security engineering
Knowledge and Experience in Satellite navigation system and related security architectures
Knowledge and Experience in managing industrial contracts

Behavioural competencies
Integrity
Problem Solving
Teamwork
Results Orientation
Planning & Organisation
Customer Focus

Education
A Master's degree in telecommunications engineering or similar is required.

Additional requirements
In-depth knowledge of security and the GNSS system is required.
You should be able to coordinate, monitor and lead the engineering support provided to the Project in the relevant areas of expertise. You should be able to demonstrate that you can work in a fast-paced environment and handle pressure as may typically occur in a project team. You should be results-oriented, and able to set priorities, and to present practical solutions both verbally and in writing. You should have interpersonal and communication skills. You should have the ability to work autonomously, effectively and cooperatively in a diverse, international team environment, defining and implementing solutions in line with team and individual objectives and project deadlines. You should also have good technical, analytical, organisational and reporting skills, a proactive attitude to solving problems and an interest in innovative technologies.
You should be ready to obtain security clearance from the national relevant authority. Already having security clearance is an asset.

Other information
For behavioural competencies expected from ESA staff in general, please refer to the ESA Competency Framework.

The working languages of the Agency are English and French. A good knowledge of one of these is required. Knowledge of another Member State language would be an asset.
The Agency may require applicants to undergo selection tests.

The closing date for applications is 28 February 2021.

If you require support with your application due to a disability, please email contact.human.resources@esa.int.

Please note that applications are only considered from nationals of one of the following States: Austria, Belgium, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Luxembourg, the Netherlands, Norway, Poland, Portugal, Romania, Spain, Sweden, Switzerland, the United Kingdom and Canada, Latvia and Slovenia and in addition of Member States of the European Union not members of ESA: Bulgaria, Croatia, Cyprus, Lithuania, Malta and Slovakia.

According to the ESA Convention the recruitment of staff must take into account an adequate distribution of posts among nationals of the ESA Member States. When short-listing for an interview, priority will first be given to internal candidates and secondly to external candidates from under-represented Member States. (http://esamultimedia.esa.int/docs/careers/NationalityTargets.pdf)

In accordance with the European Space Agency's security procedures and as part of the selection process, successful candidates will be required to undergo basic screening before appointment.

Recruitment will normally be at the first grade in the band (A2); however, if the candidate selected has little or no experience, the position may be filled at A1 level.