

Job Title: System Security Engineer

Req ID 5203 - Posted 17/09/2018



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

System Security Engineer

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

Location

ESTEC, Noordwijk, The Netherlands

Description

System Security Engineer in the Galileo System Security Unit in the Galileo Security Office, Navigation Security Office, Directorate of Navigation.

Duties

The holder of this post will report to the Head of the Galileo System Security unit within the Galileo Security Office and he/she will support the GNSS Evolutions Signal and Security Principal Engineer from the Galileo Evolution Programme, in:

- Defining the evolution of the Galileo Public Regulated Service (PRS), in terms of system specification and design (in coordination with the Galileo Second Generation System Engineering Unit in charge of the overall architecture);
- Deriving the corresponding Segment requirements (Space Segment, Ground Segment and User Segment) from the Evolution System requirements for PRS;
- Supporting technology pre-developments (Signal generator and Receiver) in preparation of future PRS test bench and security activities;
- Defining and Managing the procurement of system tools (e.g. Emulators, Test Bed) contributing to the proof of concept and experimentation of potential PRS evolutions;
- Defining and following test campaigns (Test Plan, Test Cases and Procedures) for experimentation and validation of new capabilities envisaged in the frame of PRS evolutions, in order to consolidate assumptions and target figures in terms of navigation performance, resilience and broadcast encryption scheme;
- Planning and defining the future in-orbit validation of new Galileo PRS capabilities including associated system test tools (such as Test User Receiver);

In the execution of his/her tasks the System Security Engineer will cooperate closely with colleagues from the Galileo Second Generation System Engineering Unit on tasks related to system design and verification.

Technical competencies

System engineering principles, processes and standards

Design, development, deployment and testing of complex secure systems

Satellite navigation principles and related security architectures

Project development phases

Industrial development, verification and procurement processes

Behavioural competencies

Communication
Problem Solving
Teamwork
Innovation & Creativity

Education

Engineering degree (Master level)

Additional requirements

The incumbent will work inside the Galileo Security Office which is in charge of all the security-related activities for Galileo and Galileo Second Generation projects. He/she should therefore have acquired extensive experience in the design and development of large distributed security systems. In addition, good background in satellite navigation, signals, receiver and security engineering applied to space systems will be considered an asset.

The candidate is expected to be able to set priorities and identify practical solutions. The candidate should be able to work autonomously as well as in a team environment. Applicants should have good organisation and communication skills, a proactive attitude to solving problems and an interest for innovative technologies.

The candidate must be eligible to security clearance by their national security administration.

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 15 October 2018.

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 and Slovenia and in addition of Member States of the European Union not members of ESA: Bulgaria, Croatia, Cyprus, Latvia, 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. Priority will first be given to internal candidates and secondly to external candidates from under-represented Member States when short-listing for interview. (<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.