EUROPEAN SPACE AGENCY

Galileo G1 System Engineer

Job Req ID: 12728
Closing Date: 26 October 2021
Publication: External Only
Vacancy Type: Fixed-Term
Date Posted: 28 September 2021
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. We therefore welcome applications from all qualified candidates irrespective of gender, sexual orientation, ethnicity, beliefs, age, disability or other characteristics. Applications from women are encouraged.

This is a non-renewable post for a limited duration of 4 years and is classified A2-A4 on the Coordinated Organisations' salary scale.

Location
ESTEC, Noordwijk, Netherlands

Description
Galileo System Engineer in the Galileo G1 System Engineering Unit, Galileo G1 System Engineering Service, Galileo First Generation Project Office, Galileo Programme Department, Directorate of Navigation.
The Galileo G1 System Engineering Unit is in charge of all the systems engineering activities performed in compliance with ESA's role as Galileo System Design Authority. The activities encompass maintenance of the Galileo System Technical Requirements Baseline (STRB), mission compliance and the related activities (systems requirements and interface engineering, system performance and signal-in-space engineering).

The Unit contributes to ensuring Galileo design integrity and consistency between G1 and G2 and future generation systems under development.

Duties
You will report to the Head of G1 System Engineering Unit, and be responsible for:

- supporting the definition and maintenance of the overall Galileo System Technical Requirements Baseline (STRB), in compliance with the agreed Mission Requirements Document (MRD) and System Security Requirement Statement (SSRS), including internal and external interfaces, with associated statements of compliance, justification and traceability files;
- maintaining the G1 design dossier (including system design, system interfaces, system architecture configuration file) throughout the lifetime of the system in operations, in line with the changes introduced to the system in operations, as well as with feedback on operating experience, ageing effects in orbit and obsolescence on ground, anomaly investigations, etc.;
- participating actively in activities to increase system resilience and robustness, taking into account past service incidents and service anomalies;

- contributing to design studies and simulations for the assessment of new system end-to-end capabilities and defining the applicable system baseline as input for procurements;
- contributing to ensuring Galileo design integrity and consistency between G1 and G2 and future generation systems under development;
- supporting the monitoring of industrial contracts for the development of radio navigation system tools, including generating technical requirements and Statements of Work and reviewing relevant documentation;
- supporting the definition of design changes and the impact analysis of any proposed changes in order to issue recommendations, upon request from the responsible for system operations at EUSPA;
- contributing to segment and system-level reviews;
- providing supporting analysis and documentation in the framework of international standardisation groups dealing with Galileo.

As part of a team of systems engineers, you will collaborate with all project disciplines, namely ground segment, space segment, security, product assurance and safety and project control.

Technical competencies
Knowledge on large scale complex ground and space system architecture including interfaces, networks and protocols
Knowledge on satellite navigation systems
Space System Design
Systems Architecture
Requirements engineering Modern computer systems
Data processing techniques for satellite navigation systems

Behavioural competencies
Result Orientation
Operational Efficiency
Fostering Cooperation
Relationship Management
Continuous Improvement
Forward Thinking

Education
A Master's degree in an engineering discipline is required for this post.

Additional requirements
You have a background and substantial experience in GNSS Phase C/D projects and systems engineering, as well as in space system design, manufacturing and testing.
You have good knowledge of modern computer systems, programming languages, and service volume simulation tools. Familiarity with data-processing techniques for satellite navigation systems (Galileo, GPS) is also desirable. Extensive system engineering experience in Galileo G1 and detailed Galileo system knowledge will be an asset.

You have good leadership, interpersonal and communication skills.
You can 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 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 relevant national authorities.

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.

At the Agency we value diversity and we welcome people with disabilities. Whenever possible, we seek to accommodate individuals with disabilities by providing the necessary support at the workplace. The Human Resources Department can also provide assistance during the recruitment process. If you would like to discuss this further please contact us at 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, Lithuania and Slovenia and in addition of Member States of the European Union not members of ESA: Bulgaria, Croatia, Cyprus, 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. (https://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.