

Job Title: Galileo External Interface System Engineer

Req ID 8749 - Posted 27/09/2019



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 External Interface System Engineer

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

Location

ESTEC, Noordwijk, The Netherlands

Description

Galileo External Interface System Engineer in the Galileo System Engineering Unit, Galileo System Procurement Service, Galileo System Office, Galileo Programme Department, Directorate of Navigation.

Galileo is a global space and ground system for satellite-based navigation with global coverage. The system includes dedicated and strategic external interfaces and infrastructures reflected in "Galileo Service Facilities" (i.e. Galileo Service Centre - GSC, Time Service Provider - TSP, Geodetic Reference Service Provider - GRSP) and other external entities (for international timing and geodetic referencing) and possibly new service-providers under definition. These interfaces are highly important in achieving and contributing to the Galileo mission success.

Duties

Reporting to the Head of the Unit, the postholder will be responsible for the definition, design, development and verification of Galileo external interfaces with Galileo Service Facilities, external entities and service providers. The postholder will be responsible for the external interfaces system engineering tasks under the Programme, defining and coordinating the external interface engineering-related activities under ESA's responsibility in close collaboration with the other Programme stakeholders (GSA, EC) and industrial consortia, the objective being to satisfy the Galileo system end-to-end mission requirements.

Within the project boundaries and constraints, duties include:

- acting as focal point for all issues related to real time and non-real time external interfaces to the Galileo core infrastructure;
- leading the end-to-end data flow design in support of a new Precise Point Positioning (PPP) system, with particular focus towards Real Time network security;
- ensuring the interface data flows meet mission and security needs by defining and maintaining the external interface control documentation;
- following up external entities' and service providers' design, development and deployment, ensuring coherence with the system concept;
- coordinating with the Segment and Security teams in his/her areas of expertise, in particular on external interfaces;
- supporting the Operations and Service teams in his/her areas of expertise, in particular interface engineering and testing;
- coordinating end-to-end the external interface verification and validation activities;
- contributing to the investigation and closure of AR and NCR related to area of expertise and lessons learned.

Technical competencies

Precise Point Positioning (PPP) Receiver network data generation and user algorithms

Timing and Geodetic reference products
Protocols for time critical applications
Network protection mechanisms for sensitive and time critical data flows (Data centric security)
Specification, design, development, deployment and testing of complex secure systems

Behavioural competencies

Problem Solving
Results Orientation
Planning & Organisation
Communication
Teamwork

Education

Engineering degree (Master's level) or equivalent qualification in aerospace engineering.

Additional requirements

Applicants should have at least 5 years' experience in the field of interface engineering, including the design, development and verification of real-time and non-real time interfaces.

Proven experience in large real-time data dissemination systems or real-time GNSS data collection and processing is a strong asset. Applicants should demonstrate an awareness of data sensitivity and protection mechanisms to ensure data integrity for time-critical applications.

They should demonstrate they can handle pressure and conflict as may typically occur in a project team. They should be results-oriented, able to set priorities, capable of presenting practical solutions both verbally and in writing.

Candidates should have good leadership, interpersonal and communication skills. They 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. They should also have good technical, analytical, organisational and reporting skills, a proactive attitude to solving problems and an interest in innovative technologies.

Applicants should be prepared to obtain security clearance from the national relevant authority.

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 24 October 2019.

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. 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.