

EUROPEAN SPACE AGENCY

Ground Mission Segment Engineer

Job Req ID: 12872

Closing Date: 1 April 2022

Publication: Internal & External

Vacancy Type: Fixed-Term

Date Posted: 04 March 2022

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

G1G Ground Mission Segment (GMS) Engineer in the Ground Mission Segment Engineering and Elements Unit, Galileo G1 Ground Mission Segment and Ground Security Management Service, Galileo Ground Segment Procurement Office, Galileo Programme Department, Directorate of Navigation.

The G1G GMS Engineer supports the procurement and further development of the Ground Mission Segment and its elements of the Processing Chain contributing to the various Galileo services.

Duties

You will be responsible for technical support in the context of maintaining the GMS technical baseline in line with system baseline, following up and monitoring the Ground Mission Segment, elements engineering and design activities, as well as reviewing technical documents against the Segment technical requirements and design, and acting as an interface with the system team for the resolution of Segment technical issues.

Your main duties in these technical fields will include:

- conducting evaluation of GMS design and evolution, with a specific focus on GMS algorithms and performances, ensuring the design, development, deployment, verification, tuning and validation of the GMS functions that generate and monitor the navigation products (i.e. ephemeris, clock, group delay, code & phase biases, etc.) in line with the allocated performances for service provision (i.e.. accuracy, availability and robustness requirements) and development constraints;
- following up GMS design and implementation both at element and segment level, including performance aspects;

- supporting GMS engineering activities, such as consolidation and maintenance of the segment requirement and interfaces in line with the system baseline, change management and baseline evolutions (DCPs/DCNs), assessment of contractors' RFDs/RFWs; new service evaluation and contributing to proposal assessments;
- providing expert technical support and consultancy to the G1 System, IVQ and Security teams for GMS technical issues throughout all project phases and in particular for segment and system reviews and technical evaluation boards;
- contributing to ESA procurement activities (preparation of ITT documents, evaluation of proposals and negotiating of contracts, managing technical implementation at element level) for topics related to GMS engineering, in particular contributing to the procurement activities for the next Galileo Ground Segment Generation (G2G).

In performing these duties, you will be expected to interface closely with the Galileo Ground Segment Engineering Team, the Galileo System Engineering and IVQ Teams, the Galileo Security Office, the Operations Team, the related industrial teams and the Product Assurance Office.

Technical competencies

In-depth knowledge of Galileo system and ground segment architecture
Experience with both Platform and Payload Operations as well as with the design, development, maintenance and application of related operational and ground segment tools and methods (such as Mission Control Systems, Operational simulators, etc.)

Knowledge and experience in the fields of Navigation and related data processing and performances aspects

State-of-the-art knowledge in area of IT Infrastructure and software development and related IT trends in industry

Knowledge and understanding of cyber security matters

Solid understanding/knowledge of requirements engineering

Behavioural competencies

Result Orientation

Operational Efficiency

Fostering Cooperation

Relationship Management

Continuous Improvement

Forward Thinking

Education

A Master's degree in physics, electrical or aerospace engineering or other scientific discipline is required for this post.

Additional requirements

- Since many of the activities involved in this role will take place within industry or at operational sites, you must be prepared to travel on a regular basis.
- A background and experience in navigation and security systems, including cyber security, knowledge of ground segment and satellite operations and infrastructure, plus familiarity with ECSS standards are desirable.

- Experience and understanding of the following technologies and engineering practices would also be considered an asset: MBSE (e.g. Capella), virtualisation, JIRA/Confluence, Kafka.
- You must be eligible to obtain security clearance from your relevant national 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.

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 or balanced 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.

*Member States, Associate Members or Cooperating States