EUROPEAN SPACE AGENCY

Galileo G2A/G2B Navigation Payload System Engineer (2 posts)

Job Req ID: 12503
Closing Date: 21 September 2021
Publication: Internal & External
Vacancy Type: Fixed-Term
Date Posted: 24 August 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
You will be responsible for monitoring the design, development, implementation and validation of the sub-systems and units which are part of the navigation payload of the Galileo 2nd Generation satellites, including the ground test campaign, in-orbit commissioning and in- orbit follow-up phases.

You will report to the G2A or G2B Satellite Payload Manager in the G2 Space Segment Management Service.

Duties
- Monitoring the industrial work associated with design, development, validation, qualification and acceptance of the Navigation Satellite Payload Subsystems and equipment, ensuring that they meet the satellite, relevant interface and security requirements;
- Monitoring the industrial activities related to the definition and execution of the navigation payload verification programme, including implementation and monitoring of AIT/AIV activities on communication subsystems and equipment;
- Consolidating and maintaining the Navigation Payload performance budgets to ensure compliance with the relevant requirements;
- Ensuring timely delivery of the deliverable items (to allow preparation of in-orbit operations) in your area of responsibility as planned for industrial activities included in the SoW;
- Coordinating specialised engineering support provided by the Directorates of Technology, Engineering and Quality and of Operations;
- Drawing up in your area of expertise the provisions related to anomaly-handling, NRBs, the NCR process, RFD/W, etc.;
- Participating in Agency project reviews and lower-level reviews in the relevant area of competence;
- Preparing inputs in your area of expertise for the Satellite Verification Control Board and Space Segment Control Board processes;

- Reporting on a regular and ad hoc basis to the Satellite Payload Manager on all aspects of Navigation Payload development, proactive monitoring of relevant schedules, identifying risk and problem areas, and proposing mitigation actions.

You will ensure close coordination with other G2A/G2B functions (PA, Security, Operations) as appropriate to maximise efficiency in executing the project.

Technical competencies
Experience in Navigation Payload design in particular in the areas of on-board signal generation, advanced antenna technologies and concepts, RF high power design, including usage of required associated design tools
Experience in Navigation Payload system budget and performances analyses, including usage of required associated simulation tools
Experience in Navigation Payload verification and validation concepts, and associated test facilities
Knowledge of Space system development and PA standards

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

Education
A Master's degree in electrical engineering or similar field is required for this post.

Additional requirements
You are eligible to obtain EU personal security clearance from your relevant national authority.

You have a minimum 10 years' experience in payload engineering, AIT and test beds, of which a minimum 5 years in navigation.

Experience in cooperating with Industry is an asset.

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

You should have good leadership, 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

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.