

Job Title: PRS Performance and Validation Engineer

Req ID 5203 - Posted 03/05/2018



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 PRS Performance and Validation Engineer

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

Location
ESTEC, Noordwijk, The Netherlands

Description
PRS Performance and Validation 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 will support the GNSS Evolutions Signal and Security Principal Engineer, for the Galileo Evolution Programme, in:

- Defining the evolution for the PRS Signal and Performance architecture in term of system specification and design working in coordination with the G2G System Engineering Unit in charge of the overall architecture;
- Deriving Segment requirements (Space Segment, Ground Segment and User Segment) from the PRS Evolution System requirements;
- Supervising PRS technology pre-developments (Signal generator and Receiver) in preparation of future PRS test bench opportunities;
- The management of system tool activities (e.g. Emulators) contributing to the proof of concept 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 PRS Performance and Validation Engineer will cooperate closely with the other team members working on System design and verification in the G2G System Engineering Unit.

Technical competencies
Knowledge of other technical domains with interfaces to own area of responsibility
Knowledge of ESA and industrial development, verification and procurement processes
Design, development, deployment and testing of complex secure systems
Galileo system and ground segment architecture
Radio navigation principles, systems and technology
System engineering and understanding of system requirements and interfaces

Behavioural competencies
Communication
Problem Solving
Teamwork
Innovation & Creativity

Education
Engineering degree (Master level) in Telecommunications Engineering.

Additional requirements
Applicants should have a good background in satellite navigation, signals, receiver and security engineering applied to space systems together with a substantial experience in Phase C/D Projects. Knowledge of satellite systems and programming (e.g. matlab) is also a prerequisite. Previous involvement in system engineering activities for complex systems preferably in satellite based systems. Candidates are expected to be able to set priorities and identify practical solutions. They 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. Applicants 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 31 May 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.