

Job Title: GNSS Evolution Signal & Security Engineer

Req ID 8727 - Posted 25/09/2019



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

GNSS Evolution Signal & Security Engineer

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

Location

ESTEC, Noordwijk, The Netherlands

Description

GNSS Evolution Signal & Security Engineer in the GNSS Evolution Programme Implementation Office of the GNSS Evolution Programme and Strategy Division, Strategy & Programme Department, Directorate of Navigation

Duties

The GNSS Evolution Programme and Strategy Division, is responsible for defining, consolidating and implementing innovative technology and supporting Research & Development for the next generations of European GNSS. The post holder will directly contribute to the future of Satellite Navigation in Europe, through its work in the signal security evolution activities for the GNSS Programmes. Under the supervision of the Head of GNSS Evolution Programme Implementation Office, the post holder will be responsible for:

- Technical coordination of Signal and Security R&D activities with the GNSS Evolutions Signal and Security Principal Engineer;
- Management and support, including technical monitoring and reporting, of GNSS Evolutions Signal & Security technological activities arranged under ESA or EU-delegated Programmes (e.g. Signal and receiver activities, Multiconstellation Testbeds, Test User Receivers);
- Coordinating and undertaking technical studies and activities in support to EC discussions, internally and with other GNSS service providers:
 - identifying risks of compatibility and interoperability of European GNSS evolution and preparing recommendations accordingly.
 - in the area of frequency management providing proposals for new filings for GNSS Evolutions as necessary
 - for the European contribution to international standards.
- Supporting the Galileo Security Office, G2G System Engineering Office, EC and relevant bodies and user communities of Member States on all aspects related to signals and security evolution, with particular focus on PRS and its evolutions:
 - identifying and assessing candidate GNSS Evolutions requirements
 - ensuring the correct translation of mission aspects into system tasks
 - supporting PRS activities for signal and security aspects of GNSS Evolutions.
- Supporting the GNSS Evolutions Programme and Strategy Division in the technical Liaison with Programme Partners on Mission Level aspects, in liaison with the relevant EC/MS/Users mission level groups, as well as briefing Mission level partners on the ESA work.
- Preparation of technical surveys of signal spectrum evolution both in the GNSS international environment and in the terrestrial navigation current and future activities.
- Supporting the coordination of relevant signal security activities as run in other ESA Programmes, in related activities at EC/ESA level and in third party Programmes in the years to come (e.g. National Programmes, other

international institutions);

Technical competencies

Experience in Satellite and Radio navigation signal engineering and related R&D activities
Knowledge Satellite navigation principles and related security architectures
Experience in the preparation of procurement activities for technology development and innovation (statements of work, proposal evaluation, etc)
Experience with industrial procurement and development, verification process and conduct of reviews

Behavioural competencies

Communication
Planning & Organisation
Results Orientation
Fostering cooperation & effective team-working

Education

Engineering degree (Master level) or equivalent in engineering or applied physics.

Additional requirements

Applicants for this post should have acquired a relevant experience in the areas identified for the vacancy in particular in activities associated to technology developments of satellite systems. A well-developed system view and good knowledge of technologies appropriate for GNSS/RNSS would be major assets.
Candidates are expected to have good analytical, organisational and reporting skills, a proactive attitude to problem-solving and an interest in innovative technologies. They should demonstrate responsible decision making and be able to work and communicate effectively in a team setting.
Applicants shall be eligible to 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 11 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.

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.