Job Title: Software, Navigation and Data Processing Segment Engineer

Req ID **8696** - Posted **09/04/2019**

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

Software, Navigation and Data Processing Segment Engineer
This post is classified A2-A4 on the Coordinated Organisations' salary scale.

Location

ESTEC, Noordwijk, The Netherlands
With a resident assignment to Toulouse.

Description

Software, Navigation and Data Processing Segment Engineer in the Ground Software Systems and Functional Verification Section, Software Systems Division, Systems Department, Directorate of Technology, Engineering and Quality.

Duties

The postholder will be assigned as integrated support in the function of Navigation and Data Processing Segment Engineer in the Development, AIV and Deployment Section of the EGNOS and SBAS Division Navigation, and will report to the Navigation Data Processing lead manager.
The Central Processing Facility (CPF) is the EGNOS sub-system in charge of processing the GNSS signals collected from GNSS constellations to produce the various EGNOS/SBAS Safety of Life and Open Service navigation messages broadcast to the users, in compliance with applicable standards.
The duties of the incumbent include primarily the management of the industrial activities in the area of specifications, algorithm and software architecture and design, development and validation for the EGNOS CPF algorithms, Software sets as well as Hardware equipment covering both evolutions and anomaly resolution as part of EGNOS planned system releases and future EGNOS versions. Training and familiarisation with the parent Department's mandate, processes and procedures will be provided at the start of this assignment.
Specific duties include:
- Supervision the specification, design, procurement and development of all software and related hardware
- Interaction with the EGNOS Prime contractors, and developing subcontractors.
- Ensuring, in cooperation with the EGNOS Project team, the compliance of all the software with the technical and performance requirements of the overall system
- Actively contribute in the field of Research and Development by proposing navigation kernel experimentations and improvements for supporting the various Navigation Test Beds activities
- Support new missions like Land Mobile and High Latitude missions by providing expert support in algorithm design, real time data exchange and end to end processing expertise.
- Support the other engineers in the SW Development, Qualification, Safety and AIV domains in his area of expertise.
- Participating in periodic meetings with the TEC parent section, contributing to the transfer of technical knowledge and lessons learned across the Agency.

Technical competencies

Knowledge of the Civil Aviation domain (mission, organization, standards, etc..)
Knowledge and experience in the fields of Navigation and related data processing and performances aspects

Experience in safety critical software
Experience in real-time embedded software
Experience with industrial procurement and development, verification process and conduct of reviews
Experience in ESA procurement processes and contract management as well as applied negotiation skills

Behavioural competencies
Communication
Planning & Organisation
Problem Solving
Responsible Decision-Making
Results Orientation
Teamwork

Education
Applicants for this position shall have a university degree or equivalent qualification in Engineering, Physics or Computer science (Master level).

Additional requirements
Proven knowledge and experience in the fields of Navigation and related data processing and performances aspects.

In particular:
- Knowledge of relevant development processes and standards.
- Experience in EGNOS processing design and qualification, and in procurement preparation and implementation would be seen as clear advantages.

Candidates must be eligible for security clearance from 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 06 May 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.