

# EGNOS System Performance Engineer

**Job Req ID:** 10043

**Closing Date:** 10 May 2021

**Publication:** Internal & External

**Vacancy Type:** Permanent

**Date Posted:** 12 April 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. Applications from women are encouraged.

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

## Location

ESTEC, Noordwijk, The Netherlands, with resident assignment in Toulouse (France).

## Description

System Performance Engineer in the Radio Navigation Systems & Technology Section, Radio Frequency Systems Division, Electrical Department, Directorate of Technology Engineering & Quality.

## Duties

You will be assigned as integrated support to this function in the System Engineering Section of the EGNOS and SBAS Division, Strategy and Programme Department, Directorate of Navigation. Training and familiarisation with the parent Department's mandate, processes and procedures will be provided at the start of this assignment.

You will report to the Head of the System Engineering Section and will be primarily responsible for following and support-managing the industrial work packages for EGNOS V2 and V3 performance and for contributing to all mission evolutions.

Duties include:

- ensuring the consistency of EGNOS system performance requirements specifications (integrity, continuity, accuracy, availability) compliance and qualification across the Division especially with Mission, PA/RAMS/Security and Development teams;
- supporting the Division for all aspects concerning EGNOS system performance requirements, compliance and qualification, in particular for Mission, Standards and User Segment aspects;
- supporting the traceability, statements of compliance and deviations to higher level requirements documents including MRD and SPRD and applicable technical standards for EGNOS performance requirements;
- supporting the system technical external interfaces related to EGNOS performance qualification (CFIs for scenarios, real data, feared events definition);
- supporting the EGNOS procurement process and following up industrial activities for all performance-related aspects, including requirements compliance and qualification, flow-down of performance requirements, design description and justification;
- supporting the various EGNOS project change control boards (MRD CCB, Project CCB, OR Panel, SE Board, Programme CCB);
- responsible for ensuring EGNOS qualification with respect to performance requirements

- coordinating the EGNOS performance simulation and analysis tools roadmap and its implementation plan to support specific EGNOS releases and evolutions;
- preparing and following up industrial tasks and developments in support of EGNOS system performance engineering from early concept to system qualification including development of performance simulation and analysis tools;
- contributing to specific EGNOS Navigation task force processes related to compliance with applicable baseline requirements;
- contributing as panel chair/secretary for all major reviews linked to EGNOS performance matters;
- preparing reports for internal and external entities such as ESA management, GSA, ANSP working group and MRD CCB;
- coordinating with the GSA for all aspects related to EGNOS performance;
- contributing to the dissemination of results of activities performed and knowledge transfer across the Agency and external to the Agency in accordance with management approval.

### **Technical competencies**

General background and specific experience in the technical domains covered by the position

Experience with the design, development and application of relevant tools and methods

Project support experience in a relevant domain

Experience with laboratory or field testing of relevant technical equipment

Experience in the preparation of procurement activities for technology development and innovation (statements of work, proposal evaluation, etc)

Experience in the management and monitoring of industrial activities, including participation in reviews

### **Behavioural competencies**

Communication

Planning & Organisation

Teamwork

Innovation & Creativity

### **Education**

A Master's degree in telecommunication or electronic engineering is required for this post.

### **Additional requirements**

- Good background in satellite navigation systems together with several years' work experience in these fields.
- Experience in procurement of industrial activities, safety-critical software and real-time software development and verification are distinct advantages.
- Experience in mission requirements analysis, system design and performance engineering and procurement preparation/implementation (preparation of technical requirements and SoW, negotiation with industry, implementation technical follow-up, acceptance and qualification reviews) is required.
- Good interpersonal and communication skills, being able to work autonomously, effectively and cooperatively in a diverse and international team environment and to define and implement solutions in line with team and individual objectives and project deadlines.
- Good 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.

If you require support with your application due to a disability, please email [contact.human.resources@esa.int](mailto:contact.human.resources@esa.int).

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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 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.  
(<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.