

EUROPEAN SPACE AGENCY

SBAS System Engineer for ASECNA EGNOS project (in Toulouse)

Job Req ID: 15105

Closing Date: 19 April 2022

Publication: Internal & External

Vacancy Type: Fixed-Term

Date Posted: 22 March 2022

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 four years and is classified A2-A4 on the Coordinated Organisations' salary scale.

Location

ESTEC, Noordwijk, Netherlands

With a resident assignment to Toulouse (France)

Description

ASECNA EGNOS System Engineer in the System Engineering Section, EGNOS and SBAS Division, Strategy and Programme Department, Directorate for Navigation.

As ASECNA EGNOS System Engineer, you will be deployed in the System Engineering Section and will report functionally to the EGNOS V3 Principal System Engineer. You will be primarily responsible for leading the SBAS System Engineering activities related to defining and managing the industrial work packages for ASECNA EGNOS and will contribute to all development phases (notably phases C and D). This is an activity performed by ESA to provide support to a third-party international agency, ASECNA, in line with an international agreement signed by ASECNA and ESA in 2022.

Duties

You will work in the System Engineering Section and will report functionally to the EGNOS Principal Performance System Engineer. You will be mainly responsible for the SBAS performance management related industrial work packages for ASECNA SBAS and EGNOS and will contribute to all development phases (notably phases C and D).

Duties include:

- Supporting the ASECNA-SBAS procurement process and following up industrial system engineering activities, including:

- Defining mission and system requirements, design definition and maintenance of associated files
- Managing the configuration of the mission and system requirement files and associated databases (including statement of compliance, RFD, RFW), in coordination with the requirement database manager
- Providing support for the procurement and management of ASECNA-SBAS industrial activities, including reporting to higher management
- Coordinating with the ESA Technical Directorate, CNES and other external agencies (e.g. ASECNA) as required in order to meet the objectives of the programme
- Coordinating with other SBAS Division sections/domains with regard to performance, operations, development and IVQ, PA, safety, security and certification aspects
- Helping organise the various ASECNA-SBAS major reviews (e.g. CDR and QR) and (technical) project change control boards;
- Supporting the management and follow-up of the Division's R&D projects, including EGNOS evolutions (EGNOS NEXT), NAVISP and Horizon Europe;
- Preparing reports for internal and external entities such as ESA management, EUSPA, the EC, the SBAS Interoperability Working Group, the ANSP WG;
- Contributing to dissemination of the results of activities performed and knowledge transfer across and outside the Agency with management approval.

Technical competencies

Knowledge on large scale complex ground and space system architecture including performances, design, interfaces and protocols

Knowledge of the main tools usable for GNSS performance engineering

Systems engineering of software systems

Behavioural competencies

Result Orientation

Operational Efficiency

Fostering Cooperation

Relationship Management

Continuous Improvement

Forward Thinking

Education

A master's degree in telecommunications or electronic engineering is required for this post.

Additional requirements

- A solid background in satellite navigation systems, notably in navigation ground systems architecture, is required, together with several years' working experience in those fields.
- Experience in the procurement of industrial activities, in safety critical software and real-time software development and verification is a distinct advantage.
- Experience in mission and system requirements analysis, system design and performance engineering, and in procurement preparation and implementation (preparation of technical requirements and Statements of Work, negotiation with industry, technical follow-up of implementation, and acceptance and qualification reviews, etc.) is required.
- You should have good interpersonal and communication skills. You should be able to work autonomously, effectively and cooperatively in a diverse,

international team environment and to define and implement solutions in line with team and individual objectives and project deadlines.

- You should also have good analytical, organisational and reporting skills, a proactive attitude to solving problems and an interest in innovative technologies.
- You must be eligible for security clearance from your national security administration.

Other information

For behavioural competencies expected from ESA staff in general, please refer to the [ESA Competency Framework](#).

For further information please visit: [Professionals](#), [What we offer](#) and [FAQ](#)

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.

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 or balanced 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 conducted by an external background screening service.

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.

*Member States, Associate Members or Cooperating States.