

Navigation Engineer

Job Req ID: 14710

Closing Date: 21 February 2022

Publication: Internal & External

Vacancy Type: Permanent

Date Posted: 24 January 2022

Vacancy in the Directorate of Operations.

ESA is an equal opportunity employer, committed to achieving diversity within the workforce and creating an inclusive working environment. We therefore welcome applications from a qualified candidates irrespective of gender, sexual orientation, ethnicity, beliefs, age, disability or other characteristics. Applications from women are encouraged.

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

Location

ESOC, Darmstadt, Germany

Description

Navigation Engineer in the Navigation Support Office, Ground Systems Engineering Department, Directorate of Operations

Duties

You will report to the Head of the Navigation Support Office, Ground Systems Engineering Department, and will be responsible for selected operationally-related activities in some of the following areas:

- Managing new activities/opportunities and supporting the increase in the Navigation Support Office customer base, including providing support to procurement activities, definition of specifications and requirements and generation of statement of work;
- Leading or supporting innovation initiatives and activities in the area of advanced concepts for data processing, analysis and precise orbit determination based on GNSS, SLR, VLBI and DORIS;
- Leading or supporting projects in the field of satellite-based navigation carried out on behalf of ESA internal and external customers;
- Providing technical support to on-going and future ESA activities related to precise orbit determination activities, including missions ranging from LEO, MEO, GEO, HEO up to missions to the Moon;
- Leading or supporting precise navigation for constellations, formation flying and space safety activities;
- Supporting the development, integration, validation, operations and analysis of European GNSS programmes (Galileo 1st and 2nd Generation).

As part of these activities, you will be required to perform the following tasks:

- Specification and technical lead for innovation activities;
- Specification, development and maintenance of the necessary advanced software

Strong background in Global Navigation Satellite Systems
Strong background in Precise Orbit Determination concepts and algorithms with a focus on GNSS
Demonstrated experience of advanced estimation techniques
Demonstrated experience in the development of mission critical software systems
Experience in software configuration management
Experience of orbital mechanics
Knowledge of software engineering and security including related standards

Behavioural competencies

- Result Orientation
- Operational Efficiency
- Fostering Cooperation
- Relationship Management
- Continuous Improvement
- Forward Thinking

Education

A Master's degree in engineering, natural sciences or mathematics is required

Additional requirements

You should have very good interpersonal skills and proven ability to manage complex technical tasks and demonstrated experience to work effectively with other highly qualified team members in a multi-project international environment, to convey technical matters clearly (orally and in writing).

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.

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 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, 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

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.

*Member States, Associate Members or Cooperating States.