

## Navigation Engineer

**Job Req ID:** 12356

**Closing Date:** 24 May 2021

**Publication:** Internal & External

**Vacancy Type:** Permanent

**Date Posted:** 26 April 2021

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. For this purpose, we welcome applications from all 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 providing support in relation to the increase in the Navigation Support Office customer base, covering procurement activities, the definition of specifications and requirements and the generation of Statements of Work;
- providing support for innovation initiatives and activities in advanced concepts for data processing, analysis and precise orbit determination based on GNSS, SLR, VLBI and DORIS;
- contributing to or managing projects in satellite-based navigation carried out on behalf of internal and external ESA customers;
- contributing to ESA on-going and future precise orbit determination activities, including missions ranging from LEO (including the European Commission programme Copernicus), MEO, GEO and, HEO to missions to the Moon;
- providing support to precise navigation for constellations and formation-flying activities;
- being involved in the development, integration, validation, operations and analysis of the European GNSS programmes (Galileo 1<sup>st</sup> and 2<sup>nd</sup> Generation, EGNOS).

In the scope of these activities, participation in the following is required:

- specification and management of innovation activities;
- specification, development and maintenance of the necessary advanced software systems and tools, including quality and configuration management aspects.

### Technical competencies

Strong background in satellite navigation innovation

Demonstrated experience in the development of mission critical software systems

Experience in software configuration management  
Knowledge of software engineering and security including related standards  
Understanding of orbital mechanics  
Knowledge of advanced estimation techniques

### **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 for this post.

### **Additional requirements**

You should have very good interpersonal skills, the proven ability to manage complex technical tasks and demonstrated experience of working effectively with other highly-qualified team members in a multi-project international environment. You should be able, 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 at [contact.human.resources@esa.int](mailto: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 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.