

**Job Req ID:** 11978

**Agency:** ESA

## Flight Dynamics Engineer



### EUROPEAN SPACE AGENCY

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.

#### **Post**

#### **Flight Dynamics Engineer**

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

#### **Location**

ESOC, Darmstadt, Germany

#### **Description**

Flight Dynamics Engineer in the Earth Observation Mission Support Section of the Flight Dynamics Division, Ground Systems Engineering and Innovation Department, Directorate of Operations.

#### **Duties**

You will report to the Head of the Earth Observation Mission Support Section, and participate in the provision of Flight Dynamics support to the satellite projects entrusted to the Section, including study, development, test, operations, evaluation and maintenance activities, addressing infrastructure and project-specific issues.

The responsibilities of the Earth Observation Mission Support Section are:

- critical and routine operations support for ESA Earth Observation missions such as CryoSat-2, SWARM and Aeolus, and other missions in preparation such as EarthCARE, Biomass and FLEX;
- flight dynamics support to Sentinel missions supported from ESOC under the joint ESA/European Commission Copernicus Programme;
- routine operations support for legacy science and observatory missions Cluster-II, XMM-Newton and Integral;
- early orbit operations for third-party Earth orbiting missions;
- development, validation and utilisation of operational software for Earth Observation missions in the areas of orbit and attitude determination & control and command generation.

Duties will include the following main tasks:

- Gathering and managing requirements for Flight Dynamics support to projects;

- Gathering and managing software requirements;
- Performing and supervising studies;
- Developing, adapting-, and maintaining generic and project-specific software elements;
- Coordinating Division-internal support and Division-external representation;
- Coordinating at Division level and participating in launch preparation activities and operations;
- Coordinating routine and contingency recovery support activities.

In addition to the main responsibilities listed above, involvement in other Division tasks is not excluded, as well as technical management of work packages carried out by contract firms.

### **Technical competencies**

Strong background in mathematics and orbital mechanics

Flight Dynamics systems engineering and software systems development

Experience in Flight Dynamics operations support and coordination for earth observation missions

Knowledge of modern software design methods

### **Behavioural competencies**

Result Orientation

Operational Efficiency

Fostering Cooperation

Relationship Management

Continuous Improvement

Forward Thinking

### **Education**

A Master's degree in mathematics, physics or engineering.

### **Additional requirements**

Several years of active participation in flight dynamics support for space missions is essential. You should be able to establish working interfaces in a multi-disciplinary and multi-project operational environment.

### **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 April 2021.**

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).

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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.