

# Job Title: Flight Dynamics Engineer

Req ID 9583 - Posted 26/02/2020



## 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. 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 Science Missions Support Section, Flight Dynamics Division, Ground Systems Engineering and Innovation Department, Directorate of Operations; You will participate in providing Flight Dynamics support to satellite projects, including study, development, test, operations, evaluation and maintenance activities, addressing infrastructure and project-specific issues.

### Duties

You will be a member of the Section, which is responsible for:

- mission preparation, launch and later routine and critical operations of the ExoMars rover, JUICE, HERA, Euclid, Plato, Ariel, Lisa;
- critical and routine operations support for the ESA inner solar system missions Bepi-Colombo and Solar-Orbiter; routine operations support for Mars orbiters Exo-Mars Orbiter and Mars Express;
- routine operations support for the GAIA observatory mission;
- development, validation and utilisation of operational software for the above science missions in the areas of orbit determination & control, GNC monitoring & command

Duties will include the following tasks:

- gathering and managing requirements for Flight Dynamics support to projects; gathering and managing software requirements;
- performing and supervising studies;
- developing, adapting, maintaining generic and project-specific software elements in the areas of GNC monitoring and control;
- 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.

You will primarily support the above missions. Involvement in other Division tasks is not excluded.

### Technical competencies

Flight Dynamics systems engineering and software systems development  
Experience in Flight Dynamics operations support for deep-space missions  
Knowledge of modern software design methods

## Behavioural competencies

Problem Solving  
Planning & Organisation  
Teamwork  
Communication  
Results Orientation

## Education

You should have a Master's degree or equivalent qualification in mathematics, physics or engineering.

## Additional requirements

Several years of active participation in flight dynamics support for deep-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 25 March 2020.

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 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. (<http://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.