

# Satellite Platform Engineer

**Job Req ID:** 13781

**Closing Date:** 20 January 2022

**Publication:** Internal & External

**Vacancy Type:** Permanent

**Date Posted:** 23 December 2021

Vacancy in the Directorate of Telecommunications and Integrated Applications.

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**

ESTEC, Noordwijk, Netherlands

## **Description**

Satellite Platform Engineer in the Eagle-1 Project, within the Optical and Quantum Satellite Programme in the Telecom Satellite Programmes Department in Directorate of Telecommunications and Integrated Applications.

The position is located at ESTEC (in the Netherlands) with full or part time residency in Ita during the duration of the project.

As a first assignment, you will work on Eagle 1 project. Eagle-1 will be implemented through a partnership between ESA and a private operator. Eagle-1 is an end-to-end satellite-based Quantum Communication System (both space and ground elements) to develop, qualify, launch and conduct extended in-orbit test campaign demonstrating Quantum Key Distribution (QKD) through pre-commercial trials for the partner operator, European Commission, ESA and its Member States.

## **Duties**

You will report to the Project Manager and you will be responsible for monitoring the satellite platform design, development, manufacturing and testing as well as Satellite AIT activities. You will work in close cooperation with the Optical/QKD System Engineer.

Your main tasks and duties will include:

- Monitoring design, development, manufacturing and testing of the Eagle-1 platform, with special attention to the adaptations needed for the QKD mission;
- Monitoring the platform and integrated satellite level AIT and schedule;
- Maintaining – ESA-internally – all relevant platform budgets and supporting maintenance of integrated satellite budgets;
- Monitoring definition, preparation and execution of the platform level on-ground and in-orbit tests;

- Coordinating, together with the Product Assurance Manager, the implementation of ESA expertise to support platform and integrated satellite level activities;
- As part of residency, monitoring day to day activity on satellite platform and Satellite AIT;
- Participating to Satellite platform and Project reviews;
- Ensuring regular reporting to TIA management via Project manager;
- You will be working in a cross-functional team which spans across the departments of the Directorate and which is supported by technical experts from within the matrix structure. You will also be interfacing closely with the various project teams as well as the related industrial teams.

### **Technical competencies**

Multi-disciplinary and comprehensive knowledge of & experience in satellite design, development, verification/testing, launch and in-orbit validation

Knowledge of industrial costs and schedule aspects

Knowledge of space mission operations and operations planning

Knowledge of & experience with Product Assurance standards and their application in space projects

Complex project risk management processes

### **Behavioural competencies**

Result Orientation

Operational Efficiency

Fostering Cooperation

Relationship Management

Continuous Improvement

Forward Thinking

### **Education**

A Master's degree in engineering or a scientific discipline is required.

### **Additional requirements**

You should also have:

- Experience in working in a cross-functional team and in promoting innovation through a creative collaboration process;
- Strong problem-solving skills, with a pragmatic approach, to deal with day-to-day operational challenges;
- Strong results orientation with the ability to set priorities and present practical solutions, together with demonstrated planning and organisational skills;
- The ability to summarise complex information and have good communication skills, both verbal and written;
- The ability to work effectively in an international team environment.

Experience in working in complex space programmes up to launch and in-orbit testing is desirable, preferably in telecommunications.

Direct experience of working with a commercial telecommunications prime contractor and/or operator will be a distinct advantage. Experience with ESA's Partnership Projects would be an asset.

### **Other information**

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

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](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, 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.

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.