

## Optical System Engineer

**Job Req ID:** 15811

**Closing Date:** 02 August 2022

**Publication:** Internal & External

**Vacancy Type:** Permanent

**Date Posted:** 05 July 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 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

Optical System Engineer in the Optical Technologies Section, Ground Station Engineering Division, Ground Systems Engineering & Innovation Department, Directorate of Operations.

### Duties

You will report to the Head of the Optical Technologies Section and will be responsible for the development and engineering activities related to optical ground stations for communication, surveillance and tracking applications, including optical telescope system design and optical subsystems, and for the following specific tasks:

- Project management of telescope and optical ground station developments, deployment with subsequent handover to operations, and follow-on projects in the area of near-Earth objects, space debris observation, laser ranging and optical communication;
- Specification, development, procurement and validation of the analogue/digital subsystems required, including trade-off analysis, for passive and active optical systems, in particular optical transmitters, optical receivers, quantum technology and adaptive optics systems;
- Supporting study, technology development and standardisation activities;
- Conducting internal/external studies and prototyping in the field of optical systems and subsystems;
- Managing industrial contracts for the above.

### Technical competencies

Experience in procurement, project management, reviews and milestone achievement

Optical Systems Engineering

Satellite and space debris laser ranging

Near Earth Object telescope-based surveillance

Large optical system alignment and performance assessment

### Behavioural competencies

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

### **Education**

You should have a master's degree in engineering, physics or another relevant domain.

### **Additional requirements**

You are expected to have several years' experience in optical system engineering and experience in the management of projects.

### **Other information**

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

For further information please visit: [Professionals](#), [What we offer](#) and [FAQ](#)

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](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 conducted by an external background screening service.

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.