

Earth Observation Ground Segment Engineer

Job Req ID: 15644

Closing Date: 18 July 2022

Publication: External Only

Vacancy Type: Fixed-Term

Date Posted: 20 June 2022

Vacancy in the Directorate of Earth Observation Programmes.

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 is a non-renewable post for a limited duration of 4 years and is classified A2-A4 on the Coordinated Organisations' salary scale.

This opportunity is open for the specific needs of a National Project. **Accordingly, the external candidate selected for this post will continue to be considered an external candidate for the purposes of any future applications to the Agency.**

Location

ESRIN, Frascati, Italy

Description

Earth Observation Ground Segment Engineer in the ESA and Third Party Missions (TPM) Ground Segment Section, ESA Ground Segment and Data Management Division, Earth Observation Mission Management and Ground Segment Department, Directorate of Earth Observation Programmes.

The ESA and TPM Ground Segment implements all the functions required for scientific data acquisition, data processing, data preservation and access to the users, through mission specific elements (e.g. scientific payload activities planning, scientific data downlink planning, data processing) and across-missions elements (e.g. data dissemination, data archival). The ESA and TPM Ground Segment relies on the availability of a state-of-the art cloud-based infrastructure to optimise processing scalability and performances as well as innovative approaches to data access.

Duties

You will report to the Head of the ESA and TPM Ground Segment Section and will provide temporary support to the team. Your initial duties comprise:

- supporting the Ground Segment managers in all aspects related to the definition, implementation and operations of scientific payload data processing and orchestration, including management of the relevant contracts and industrial activities, ensuring compliance with mission requirements and optimised processing scalability and performances (e.g. Kubernetes);
- proposing and managing technological and operational innovation activities for scientific payload data processing (e.g. cloud-based solutions) with a view to optimising the use of resources and enhancing scientific data exploitation;
- providing expertise on data handling aimed at optimising the data exploitation in cloud-based environments, targeting an enhancement of the user experience (e.g. data format, data cube interfaces);
- interacting with the ESA missions Space Segment teams from the mission early phases

to prepare the operational implementation of the scientific data payload processing software, including participation in the implementation reviews and support to integration and validation activities at system level;

- supporting the Ground Segment managers in other aspects related to the implementation and operations of Payload Data Ground Segments as required.

Technical competencies

Knowledge of Payload Data Ground Segments for Earth Observation missions

Good knowledge of Earth Observation data formatting and data handling

Experience in Scientific (e.g. EO) software development preferably in a Cloud-based environment

Experience in technical management and coordination

Knowledge of procurement processes

Behavioural competencies

Result Orientation

Operational Efficiency

Fostering Cooperation

Relationship Management

Continuous Improvement

Forward Thinking

Education

A master's degree in physics, engineering or Earth sciences, with particular emphasis on data processing is required for this post.

Additional requirements

You must have the capability to work effectively in an international and multidisciplinary team.

You must be able to propose engineering solutions with a user-needs driven strategic perspective.

You must demonstrate flexibility in dealing with evolving technical and operational challenges.

Knowledge of scientific algorithms for Earth observation is considered an asset.

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 at 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, Lithuania and Slovenia.

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.