

# EUROPEAN SPACE AGENCY

## Core Platform Data and Applications Engineer

**Job Req ID:** 14205

**Closing Date:** 02 January 2022

**Publication:** Internal & External

**Vacancy Type:** Fixed-Term

**Date Posted:** 26 November 2021

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 four years and is classified A2-A4 on the Coordinated Organisations' salary scale.

### Location

ESRIN, Frascati, Italy

### Description

DestinE Core Platform Data and Applications Engineer for the implementation of the European Union's Destination Earth Initiative in the DestinE / DTE&U Office, Earth Observation Mission Management and Ground Segments Department, Directorate of Earth Observation Programmes.

The objective of the Destination Earth (DestinE) Initiative is to develop a very high-precision digital model of the Earth to monitor and simulate natural and human activity, and to develop and test scenarios that would enable more sustainable development and support European environmental policies. DestinE will contribute to the European Commission's Green Deal and Digital Strategy. It will unlock the potential of digital modelling of the Earth's physical resources and related phenomena, such as climate change, water/marine environments, polar areas and the cryosphere, etc., on a global scale to speed up the green transition and help plan for major environmental degradation and disasters.

The DestinE Initiative will be implemented by ESA in partnership with ECMWF and EUMETSAT under the system authority of the European Commission (DG CNECT). The legal basis for the implementation of the initiative consists of three respective Contributing Agreements including a Technical Annex for each of the partners of DG CNECT, all of which will be signed in November 2021. The DestinE Initiative is divided into three phases spanning the current MFF of the European Union (2021-27). The first phase will last from 2021 to end-2023 and will be financed by an overall budget of €150m from DG CNECT. ESA took a leadership role in the definition of the DestinE architecture and its operational services. ESA is responsible for the DestinE Core Service Platform implementation and operations, as well as the DestinE system integration and validation.

By way of complementarity with DestinE, an ESA Programme Proposal called Digital Twin Earth & Universe (DTE&U) is in preparation. If this programme is approved as well, some aspects of its implementation will also come under your responsibility.

### Duties

You will have delegated responsibility for the procurement, development, transfer to operations and maintenance of the DestinE Core Platform applications and data applications for end-users. This responsibility encompasses all aspects of the DestinE data lifecycle (generation, access, storage, catalogue), as well as the necessary environment for enabling use.

### **Technical competencies**

Technical management experience in large EO data management projects  
Solid understanding of the evolution of the EO data management landscape  
Sound knowledge of data infrastructures and processes including Cloud-, HPC-, Data Lake- Network- and Modelling and AI aspects  
Experience in interfacing with external parties, including institutional entities, industry and user communities/services  
Experience in negotiating agreements, preferably in an international context

### **Behavioural competencies**

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

### **Education**

A PhD or master's degree in science or engineering is required for this post.

### **Additional requirements**

The following competencies are considered assets:

- high-level motivation and dedication, taking ownership and acting proactively.

### **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.

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, 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 view of the limited duration of this post, internal candidates are strongly advised to contact their HR advisor before applying.

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.