

## Earth Observation Digital Platform Engineer

**Job Req ID:** 12966

**Closing Date:** 17 November 2021

**Publication:** Internal & External

**Vacancy Type:** Permanent

**Date Posted:** 19 October 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 post is classified A2-A4 on the Coordinated Organisations' salary scale.

### Location

ESRIN, Frascati, Italy

### Description

You will report to the Head of the Digital Platforms Section, Data Applications Division, Science, Applications & Climate Department, Directorate of Earth Observation Programmes, and will work in close cooperation with other Directorate staff in performing your tasks.

You will be part of a dynamic team leading EO research and applications activities, in partnership with European and international industry and academia, developing the next generation of platforms for hosting new EO methods and products, advancing Earth science, pioneering Open Science practices, exploring the latest collaborative and research tools and translating this experience into new approaches to exploit EO missions.

As part of the Digital Platforms Section, you will be responsible for advancing platform capabilities and tools that contribute to a Network of Resources maximising the benefits of advancing ICT to support Open Science and data-intensive research, promoting collaborative and interdisciplinary research, and enabling novel data-driven research across Earth System disciplines. This will involve operating in a dynamic collaborative environment connected to a team of EO experts and scientists and to a network of research laboratories, scientific institutions and industrial partners distributed across all Member States.

### Duties

You will be managing the development and use of digital platforms contributing to a Network of Resources comprising collaborative platforms that support Open Science and data-intensive research:

- identifying, assessing and implementing innovative ideas for shared platform services and tools, leveraging leading-edge ICT innovation that facilitates EO exploitation by EO data scientists;

- supporting the OGC Exploitation Platform Domain Working Group;
- advancing the use of innovative data access and analytics environments leveraging HPC infrastructures;
- providing support to the ESA EO Science Hub and the ESA Digital Twin initiative by supervising the implementation of relevant platform functions and the operational use of Network of Resources capabilities for science activities and result sharing;
- liaising with related non-ESA activities by national, European and international stakeholders to ensure a coordinated approach.

In addition, you will be:

- supporting other Data Applications Division activities (e.g. related to science, platforms, the downstream sector) and other ESA programme elements;
- contributing to ESA communication efforts to promote EO platform service results, mission achievements and EO benefits for society;
- supervising and supporting the work of Young Graduate Trainees and Research Fellows.

### **Technical competencies**

In-depth experience in cloud architectures and infrastructures and relevant technologies practices for application deployment at scale

Knowledge of relevant industrial standards, possibly including OGC standards and best practices

Experience in scientific computing and modelling of complex systems using HPC infrastructure (preferably related to the Earth System)

Experience on agile development life cycle

### **Behavioural competencies**

Result Orientation

Operational Efficiency

Fostering Cooperation

Relationship Management

Continuous Improvement

Forward Thinking

### **Education**

A Master's or a PhD degree in a relevant engineering discipline is required for this post.

### **Additional requirements**

Two years' experience in job-related development and/or research activities.

### **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  
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 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.

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