

Job Title: End-to-End Earth Observation Systems Engineer

Req ID 9214 - Posted 24/07/2020



EUROPEAN SPACE AGENCY

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. Applications from women are encouraged.

Post

End-to-End Earth Observation Systems Engineer

This post is classified A2-A4 on the Coordinated Organisations' salary scale.

Location

ESRIN, Frascati, Italy

Description

End-to-end Earth Observation Systems Engineer in the Φ -Lab Invest Office, Phi-Lab Division, Future Systems Department, Directorate of Earth Observation Programmes.

Duties

You will report to the Head of the Φ -Lab Invest Office in the Φ -Lab.

Working in an open, collaborative, multi-disciplinary team (Φ -Lab), in active cooperation with other staff of the Directorate and ESA, as well as in cooperation with industry and research communities in the framework of ESA programmes, your duties will be:

- preparing and overseeing competitive exploratory activities, executed by industry and research organisations of ESA Member States, in particular for the 'Investing in Industrial Innovation' (InCubed) programme, as well as related programmes;
- stimulating and supporting the development of 'NewSpace' solutions and systems for Earth observation (EO);
- supporting activities for enhancing the understanding of EO end-to-end system architectures and ecosystems, including:
 - Space segment, including 'NewSpace' architectures, onboard sensing and processing capabilities, data flow approaches
 - Ground segment aspects, such as data analytics, data distribution methodologies and data access
 - User segment aspects, such as trends in EO applications and services, and in downstream industry
- supporting activities for enhancing the understanding of the EO domain in a commercial context, including enablers and future trends;
- prospecting for and evaluating emerging technologies, methodologies and techniques relevant for space/ground/user segments of 'NewSpace' EO systems;

- developing and supporting technology application demonstrations in the Φ -Lab collaborative environment;
- facilitating high-risk/high-potential developments based on co-funding and other financial risk-mitigation arrangements;
- liaising with counterparts in other ESA Directorates, notably D/IPL, D/TEC and the ESA Applications Area (D/NAV, D/TIA), to maximise the overall coherence of ESA activities and promote and position InCubed within the space sector.

Technical competencies

Background in space engineering with systems orientation and end-to-end view of Earth Observation missions

"NewSpace" technologies, methods and markets

Knowledge of commercial aspects within EO context

Experience with co-funded activities

Knowledge of both on-ground as onboard sub-systems (e.g. sensors, onboard data handling, data acquisition, mission planning, data processing)

Behavioural competencies

Problem Solving

Innovation & Creativity

Self Motivation

Education

A Master's degree or equivalent in relevant disciplines, e.g. engineering, computer science, applied physics is required.

Additional requirements

3 years professional experience

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.

The closing date for applications is 4 September 2020.

If you require support with your application due to a disability, please email 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 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. (<http://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.