

End-to-End Earth Observation Systems Engineer

Job Req ID: 15223

Closing Date: 31 May 2022

Publication: Internal & External

Vacancy Type: Permanent

Date Posted: 03 May 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 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 Invest Office, ϕ -lab Division, Future Systems Department, Directorate of Earth Observation Programmes (EOP).

You will work within the ϕ -lab Division and report to the Head of the Φ -lab Invest office (EOP- Φ LI). You will be responsible for providing technical, commercial, and programmatic support in assessing and managing co-funded activities for commercial Earth Observation (EO), in particular within the InCubed (Investing in Industrial

Innovation) Earth Watch programme element. You are a technical professional with (industrial) experience in EO space systems and applications and with additional expertise in evaluating commercial, financial and investment information, typically for the purpose of supporting entrepreneurial initiatives.

Duties

Prepare, evaluate and oversee development activities, executed by industry and research organisations of ESA Member States and managed technically by relevant ESA specialist staff, for the InCubed programme in the following domains:

Space segment, including 'NewSpace' approaches

Ground segment, such as data analytics, data distribution and access

EO data, applications and (value-added) services in the downstream industry, assuring that such activities meet the InCubed commercial criteria and that development priorities are set accordingly

- Facilitating synergies with ecosystem stakeholders such as InCubed alumni, other ESA programmes, private and public investors, end users/customers;
- Stimulating and supporting the development of 'NewSpace' solutions and systems for EO;

- Identifying and reporting to line management in a timely manner any risks and opportunities in the assigned activities;
- Critically reviewing the results of the activities and proactively promoting successful achievements;
- Supporting activities aimed at 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 in cooperation with the EOP units;
- Ensuring coordination of EO technology developments and system architectures;
- Facilitating high-risk/high-potential developments based on co-funding and other financial risk mitigation arrangements;
- Liaising with counterparts in other ESA directorates to maximise the overall coherence of ESA activities and to promote and position InCubed within the space sector.

Technical competencies

Understanding of "NewSpace" technologies, approach, and markets

Experience with co-funded activities

Experience in business development and/or analysis, preferably in commercial space sector

Good understanding of commercial and financial data

Knowledge of both ground and onboard space technologies (sensors, onboard data handling, data acquisition and distribution, data processing)

Experience in project management with strong ability to identify and manage opportunities and risks

Basic knowledge of ESA procurement processes

Behavioural competencies

Result Orientation

Operational Efficiency

Fostering Cooperation

Relationship Management

Continuous Improvement

Forward Thinking

Education

A master's degree in engineering, physics or data science, preferably with further education in business development/management (e.g. Master's of Business Administration) is required for this post.

Additional requirements

You should have a strong background in Earth Observation with direct experience in the space industry.

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.

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.