

Job Title: Geospatial Analytics Engineer

Req ID 7081 - Posted 26/06/2018



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 Geospatial Analytics Engineer

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

Location
ESRIN, Frascati, Italy

Description

Geospatial Analytics Engineer in the Φ -lab Invest Office in the Phi-Lab Division, Future Systems Department, Directorate of Earth Observation Programmes.

Duties

The postholder will report to the Head of the Φ -lab Invest Office.

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, the postholder will:

- Establish and maintain the D/EOP observatory of NewSpace actors, investors, products, missions, markets and revenues, and related trends, with a special focus on geospatial analytics
- Stimulate and manage industrial activities related to the Investing in Industrial Innovation (InCubed) programme element, as well as related programmes that are relevant or linked to geospatial analytics
- Support activities for enhancing the understanding of Earth observation (EO) end-to-end system architectures and ecosystems, including
 - Space segment, including e.g. 'NewSpace' architectures, onboard processing capabilities and downlinking
 - 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
- Support activities for enhancing the EO domain in a commercial context, including enablers and future trends. Monitoring and responding to these trends and emerging opportunities in a globally commercial context
- Develop dialogue and cooperation with NewSpace actors: start-ups, companies, entrepreneurs, investors, venture capital, business angels
- Rapidly prototype and demonstrate data analytics use cases of EO data, using (and adapting as needed) state-of-the-art analytic software frameworks, tools and platforms
- Conduct technical analyses of applications performance and competitive potential of new space data and services, with respect to traditional sources
- Support regarding socioeconomic and market analyses to document the value and impact of EO at all levels of society
- Systematic consultation and engagement with domain experts and teams from across ESA to ensure that new initiatives for geospatial analytics benefit from the best available specialist expertise and capabilities ESA can offer
- Prepare and present summary reports and communication materials.

Technical competencies

Background in engineering or a relevant scientific discipline
Geospatial intelligence market
"NewSpace" technologies, methods and markets
Knowledge of EO products, applications and market sectors
Data analytics methods and tools
Software coding and development

Behavioural competencies

Innovation & Creativity
Problem Solving
Self Motivation

Education

Applicants for this post should have a Master's degree in relevant disciplines, e.g. engineering and business, computer science.

Additional requirements

At least 3 years' industrial experience
EO system engineering
Programming in one or more of: C, Python, JavaScript
Use of common analytics tools and packages

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 31 July 2018.

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 external candidates from under-represented Member States. In view of the limited duration of this post, internal candidates are strongly advised to contact their HR advisor before applying. (<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.