

Job Title: EO Security Applications Scientist

Req ID 7881 - Posted 02/10/2018



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

EO Security Applications Scientist

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

Location

ESRIN, Frascati, Italy

Description

EO Security Applications Scientist in the Enterprise Section, Data Applications Division, Science, Science, Applications and Climate Department, Directorate of Earth Observation Programmes.

Duties

The postholder will be responsible for building increased use of civilian EO capabilities in all security domains consistent with the ESA Convention. This will initially include law enforcement (environmental crime, crimes against humanity, proliferation, organised crime, terrorism), intelligence analysis and threat assessment, civil/military cooperation and actions addressing fragility, conflict and violence.

Responsibilities include:

- engaging key stakeholders from the law enforcement/security community, identifying opportunities for strategic collaboration at international and national level;
- building awareness and acceptance of civilian EO capabilities among security-sector stakeholders to foster longer-term adoption;
- consolidating stakeholder requirements, gathering information requirements;
- identifying and addressing structural impediments to the take-up of civilian EO-based products/services in the security domain;
- defining and implementing innovative projects to foster the use of civilian EO in law enforcement, fragility/conflict /violence situations and intelligence/threat assessment;
- assessing EO science and application developments (data analytics, data fusion, machine learning/artificial intelligence) with regard to the exploitation potential in the security/law enforcement domain;
- providing user-driving inputs for exploitation of existing EO missions for security applications and definition of future mission requirements;
- cooperating with other EOP teams involved in industrial innovation, particularly the Φ -Lab Invest Office, to address evolving security domain priorities;
- contributing to ESA communication efforts promoting EO results, mission achievements and benefits for society;
- supervising and supporting the work of Young Graduate Trainees, National Trainees and Research Fellows.

Technical competencies

Experience in the application of satellite/airborne EO with stakeholders from the security domain in Europe
Knowledge of European and Global law enforcement/security environments

Experience in the application within the EO domain of big data analytics, data fusion and machine learning for classification and feature detection

Behavioural competencies

Problem Solving

Teamwork

Innovation & Creativity

Education

A PhD or equivalent in a relevant discipline such as engineering, Earth sciences, computer science, applied physics, the security domain or data science.

Additional requirements

Specialist experience of working in the one of the following areas would be an advantage: law enforcement, fragile states, intelligence/threat assessment, civil/military cooperation.

Strong problem-solving skills to deal with day-to-day operational challenges, demonstrated planning and organisational skills.

Strong results orientation with the ability to set priorities and present practical solutions orally and in writing.

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 30/10/2018.

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 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.