

Job Title: Earth Observation (EO) Open Data Scientist

Req ID 6221 - Posted 09/05/2018



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

Earth Observation (EO) Open Data Scientist

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

Reporting to the Head of the Research & Development Section, Data Applications Division, Science, Applications & Climate Department, Directorate of Earth Observation Programmes, the postholder in performing these tasks will work in close cooperation with other Directorate staff.

The postholder will be part of a dynamic science team leading research and scientific activities, in partnership with European and international industry and academia, aimed at developing the next generation of EO methods, techniques and products, advancing Earth System Science (ESS), pioneering Open Science practices, exploring novel collaborative research tools and translating this experience into novel EO mission ideas.

As part of the R&D Section, the postholder will be responsible for advancing Open Science and data-intensive research, exploring novel practices and tools to promote collaborative and interdisciplinary research with a focus on ESS and maximising the benefits of new ITC capacity and novel data-driven research across Earth System disciplines. This involves operating in a dynamic collaborative environment connected to a team of EO experts and scientists at different ESA centres and to a network of research laboratories, scientific institutions and industrial partners distributed across all Member States.

Duties

The activities associated with this post will address multidisciplinary topics in the domains of Open Science and data-intensive science focusing mainly on scientific exploitation of ongoing and future ESA and European EO missions:

- developing EO Open Science practices, collaborative research toolboxes and virtual research environments promoting knowledge transfer and sharing among scientists and across scientific disciplines in the broad areas of EO and ESS;
- exploring new data-driven approaches (from mathematical, statistical, information science and computer science fields) applied to EO and ESS;
- carrying out data-intensive science exploiting new ICT capacity to advance interdisciplinary research in ESS and maximise the scientific impact of ESA and European missions;
- promoting novel citizen science initiatives involving the general public in ESA science activities through open collaborative tools and projects;
- maintaining close dialogue with the international scientific community and major international science programmes fostering cooperation in the areas of EO Open Science and data-intensive Earth System research;
- supporting research activities fostering novel developments and publications in the Open Science domain;
- coordinating activities with the Directorate's relevant Departments, notably Future Systems, EO Mission Management & Ground Segment and Science, Applications & Climate teams to maximise the overall coherence and effectiveness of ESA actions.

These interrelated topics will be addressed by the EO Data Scientists with a focus on advancing and accelerating EO data-intensive science and Earth System Science maximising ESA and European EO mission impact.

Technical competencies

Knowledge of international scientific community

Experience in earth system science and EO open science techniques

Experience in the management and monitoring of research and development activities

ESA Earth Observation missions and programmes

Behavioural competencies

Teamwork

Innovation & Creativity

Problem Solving

Education

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

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 6 June 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.