

Job Title: Earth Observation Data Processing Engineer

Requisition ID 10177 - Posted 27/11/2020



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

Earth Observation Data Processing Engineer

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

Location

ESRIN, Frascati, Italy

Description

Earth Observation Data Processing Engineer in the Copernicus Ground Segment Operations Management Section, Copernicus Ground Segment and Data Management Division, Earth Observation Mission Management and Ground Segment Department, Directorate of Earth Observation Programmes.

The Copernicus Ground Segment is implemented on a service-based architecture making use of cloud technology to optimise the scalability and performance of the CSC operations.

The Copernicus Sentinel data processors are implemented based on algorithms specified during the pre-launch phase, consolidated and maintained as part of the operations phase.

Duties

You will report to the Head of Copernicus and Ground Segment and Data Management Division and will be allocated the following initial duties:

- managing the procurement activities for the re-engineering and maintenance of the Copernicus Sentinel raw data and instrument corrected data processing software leading to ready-to-use cloud-optimised software packages;
- providing expertise on Copernicus Sentinel data format aimed at optimising the handling of the data in a cloud-based environment and streamlining user exploitation (e.g. data cube interfaces);
- supporting the CSC Ground Segment managers in all aspects related to their duties coordinating the specific Sentinel Ground Segment operations;
- interacting with the Copernicus Space Segment teams from the early phases of the HPCM and NG space segment activities to prepare the operational implementation of the future HPCM & NG processing software;
- contributing to the HPCM & NG Space Segment implementation reviews and to the preparation of the integration of HPCM & NG missions in the CSC Ground Segment operations framework;
- managing the procurement activities for the implementation of the HPCM & NG cloud-optimised operational data processing software.

Technical competencies

Good knowledge of Earth Observation data formatting in particular for the Sentinels Data
Good knowledge in software development on a cloud based environment
Good knowledge in Earth Observation data handling
Experience in Scientific (e.g. EO) software development

Behavioural competencies

Communication
Planning & Organisation
Problem Solving
Responsible Decision-Making
Teamwork

Education

You should have a Master's degree in physics, engineering or Earth sciences with particular emphasis on data processing.

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 18 December 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, Latvia 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.
(<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.

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.