Job Title: MTG Instrument Performance and Commissioning Engineer

Req ID **10173** - Posted **23/06/2020**

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
MTG Instrument Performance and Commissioning Engineer

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

Location
ESTEC, Noordwijk, The Netherlands

Description
You will report to the MTG System and Operations Manager, Earth Observation Projects Department, and work closely with the MTG Payload team.

Duties
You will:

- define and support MTG instrument characterisation, calibration and performance verification activities on-ground and in-flight;
- support satellite commissioning activities.

Your duties will include:

- maintaining close coordination between the MTG System and Payload teams to ensure a coherent, rigorous approach across the instruments/satellites;
- closely monitoring the MTG industrial team to ensure the timely development and implementation of the instrument performance and commissioning tools;
- supporting the detailed definition and implementation of MTG instrument characterisation, calibration and performance verification activities on-ground and in-flight;
- managing development of the instrument level 1 processing algorithms and associated tools (IQT and IMC tools) for the FCI, LI and IRS instruments;
- managing development of the system Payload Data Generator (PDG);
- performing level 1 instrument data processing (geometric, radiometric and spectral) during the commissioning phase using the associated tools, and supporting industry and Eumetsat related commissioning activities;
- ensuring suitable validation of the MTG-I/S IQT and PDG versions and coordinating acceptance by ESA;
- in close coordination with the Payload team, interfacing with Eumetsat and instrument data users on data processing and instrument performance aspects.

In view of the longevity of the MTG programme, which includes six satellites, and the need for continuity of knowledge, you will also be expected to work with the instrument engineers to understand detailed system functionality and the critical design features of the instruments, in terms of critical performance.

Technical competencies
Multi-disciplinary knowledge of area of responsibility
Knowledge of other technical domains with interfaces to own area of responsibility
Knowledge of ESA Space system development and PA standards

Capability to analyse and evaluate performance at mission level
Experience with satellite payload data processing and data management operations
Experience in instrument performance and verification

Behavioural competencies

Communication
Planning & Organisation
Problem Solving
Responsible Decision-Making
Results Orientation
Teamwork

Education

A Master's degree in physics or relevant engineering field is required.

Additional requirements

Applicants for this post should have experience in optical instrument data processing algorithms and level 1 processors. Experience with optical imagers for meteorology, Fourier-transform spectrometer and/or lightning detection instruments will be considered an asset.

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 21 July 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 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.