COPERNICUS DATA PROCESSING OPERATIONS ENGINEER

Job Description

The key person will support our customer during routine operations of Copernicus Sentinel Spacecraft including the operations build-up and the operations, engineering and scientific activities to be undertaken as part of the routine operations of the satellite system for the Copernicus Sentinel Mission.

Tasks:

The key person(s) (Instrument Data Processing Engineer(s)) shall perform tasks related to instrument data processing in support of the Copernicus Payload Data Ground Segment (PDGS), during current routine operations, as well as for the operations build up and the routine operations phase for the dual satellite system. The tasks cover the operation of the different data processing components, which include:

- Data ingestion, processing and product distribution;
- Data and Product analysis;
- Operational performance monitoring and reporting, including the development, documentation and maintenance of the relevant tools for e.g. production statistics generation and reporting, PDGS monitoring and reporting;
- The testing and the implementation of new products;
- The setting-up, implementation and update of operational procedures and documentation;
- Anomaly investigation;
- First line maintenance, including on-call support;
- Co-ordination with external organisations and service providers;
- Attendance at technical meetings;
- Participation to formal reviews.

Qualifications

Profile:

Mandatory skills :

In addition to having an University degree (or equivalent) in a relevant discipline, the Key Person shall have the following mandatory skills:

- Demonstrated experience in near real time, data driven, automated systems with large computer networks
- Demonstrated experience with UNIX/Linux operating systems
- Knowledge of Development and maintenance of operational procedures and/or configuration data
- Knowledge of scripting languages and databases (e.g. Perl, Python, shell, PostgreSQL)

- Proven experience in the integration, verification and validation (IV&V) of data processing systems and/or processors, including generation of test plan, test specification, procedures and test reports for end-to-end processing chains
- Ability to communicate effectively in English
- Ability to conduct all activities in an orderly and disciplined manner
- High degree of working autonomy
- Problem solving
- Good analytical skills
- Ability to work under pressure
- Ability to work with a minimum of supervision
- High degree of interpersonal awareness
- Experience in working as part of a multicultural team

Additional skills (considering as an added value) :

- Experience in validation of operational procedures
- Demonstrated experience in operations build up activities
- Practical knowledge in Configuration Control
- Knowledge in Computer systems, Network systems and IT Security
- Knowledge of ECSS standards
- Experience of validating complex remote sensing data processing systems
- Development and maintenance of operational procedures
- Programming languages (e.g. C, C++ and IDL)
- Knowledge of spacecraft and/or ground segment operations
- Demonstrated experience of Instrument data and product processing (Level-0 to 2) of meteorological and/or earth observation products
- Knowledge and/or experience of quality control, calibration and validation