

## CO2M System IVV Engineer (Data Processing, Mission control)

### Description

To support the development of the CO2M System and the Overall Ground Segment to operate and exploit the CO2M mission, we are looking for a full time Ground Segment and Systems Engineer to join our team and be part of the Engineering and Integration, Verification & Validation (I,V&V) Service for our customer.

The areas of work cover:

- the Mission Data Processing Sub-segment (MDPS),
- the Mission Control & Operations Sub-segment (MCOS),
- the Overall Ground Segment OGS and System Engineering & I,V&V

The successful candidate will be based at EUMETSAT headquarters in Darmstadt, Germany, providing service in the field of system engineering. A high percentage of off-site location is also possible.

### Responsibilities

The Candidate shall contribute to activities related to (either or)

1. the Engineering and I,V&V of the Mission Data Processing Sub-segment (MDPS):

- CFDP Front End Processor and File Re-constructor (CFDP FEP)
- Payload Data Processing (PDP)
- Scientific SW-Lib
- Instrument Processing Facilities (IPFs)

2.the Engineering and I,V&V of the Mission Control and Operations Sub-Segment (MCOS)

- Flight Dynamics Subsystem (FDS)
- Mission Planning Subsystem (MPS)
- Mission Control Subsystem (MCS)
- Operations Preparation Subsystem (OPSPREP Tools)
- Satellite Simulator (SIMSAT)

3. the I,V&V of the System & Overall Ground Segment

### Skills and Experience

The Key Person shall have the following experience and background:

- University degree in a relevant discipline (Aerospace, Aeronautics, Telecommunications engineering, Software, System or Computer Sciences, etc.).
- At least 3 years' experience in Systems Engineering and IV&V related

### Hiring organization

WGS Workgroup Solutions GmbH

### Employment Type

Full-time

### Date posted

October 26, 2023

### Valid through

10.11.2023

activities for at least one major element of a ground segment for earth observation missions

- At least 3 years' 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
- Knowledge of space and ground system engineering processes, and system and software life-cycles and standards
- Knowledge of ECSS standards
- Experience in change control procedures
- Experience in writing technical requirements
- Definition, management and traceability of requirements structure with the support of dedicated tools (e.g. DOORS)
- Experience in interface management and definition, including familiarity with mechanisms and tools for detailed interface definition and capability to prepare and manage ICD
- Experience with formal testing (FAT/OSAT), including preparation of test procedures, TRRs/TRBs
- Experience of automatic testing environments and test automation to support Integration, Verification and Validation of Ground Segments
- Experience in formal verification control processes (VCBs) and maintenance of VCDs
- Use of modelling and design languages for System Engineering (e.g. SysML) and tools in support of architectural design activities (e.g. Enterprise Architect).
- Ability to write accurate and consistent technical documentation
- High degree of working autonomy
- Problem solving
- Good analytical skills
- High degree of interpersonal awareness
- Experience in working as part of a multicultural team
- Fluency in English (spoken and written)

The following experience would be additional assets:

- Experience in operational environments under strict configuration management rules
- Knowledge of Development and maintenance of operational procedures and/or configuration data
- Knowledge of Spacecraft and/or ground segment operations
- Experience with Data Processing systems for earth observation missions
- Knowledge of and/or experience of quality control, calibration and validation.
- Experience with Satellite Mission Control systems for earth observation missions
- Experience with Ground Stations and/or EUMETSAT Multi-Mission Elements for archiving, monitoring, data dissemination
- Knowledge of scripting
- Experience with ground segment test data, including reconditioning, change control, and related test tools
- Knowledge of CO2M Payload Data, Generic Product Format Specification (Level 0-1-2) and test harness
- Knowledge of IT/ground segment technologies: relational databases, virtualisation, networking, SW deployment tools, etc.
- Demonstrated experience with UNIX/Linux operating systems
- Knowledge of programming languages (e.g. C/C++, Java and IDL)

**Contact**

Interested applicants should submit their CV and Cover Letter in **Word** (\*.docx) or in **PDF** (\*.pdf) format from the website or by emailing the WGS recruitment team at ***[vacancies@workgroup-solutions.com](mailto:vacancies@workgroup-solutions.com)*** before **10.11.2023**