Date: 29.09.2026

Senior Data Processing Scientist – Payload Data (m/f/d)

Marble Imaging: We are a German NewSpace company, combining engineering, aeronautics & Earth Observation to address global challenges from community resilience, climate adaptation and disaster management. Marble Imaging is developing its own constellation of Very High Resolution (VHR) multispectral satellites designed to provide frequent global coverage and enable advanced Earth Observation analytics. The first Marble satellite is scheduled for launch in Q4 this year

We are a fast-growing and diverse team, comprised of highly motivated professionals from various backgrounds. We share a common vision to make EO data and analytics more accessible and understandable so they can be incorporated into rapid-decision-making.

The Team: You will be part of the Marble Data and Products (MDP) department and part of the Payload Data Processing Chain (PDPC) team. The PDPC team develops and maintains the ground processing chain that transforms raw satellite payload data into calibrated and geometrically corrected Earth Observation products. The role is highly cross-functional and works closely with the Space Segment, Satellite Operations, Cal/Val, Data Analytics and software development teams.

Location: Our headquarters is in Bremen and we have an office in Frankfurt. Candidates should be located in the Frankfurt or Bremen region and be willing to work from one of our offices at least three days per week.

Your role: As a Senior Data Processing Scientist, you will contribute scientific and system level expertise to the development, commissioning and operation of Marble's satellite data processing chain. You will work alongside the senior scientists and development team, providing an experienced second perspective on processing concepts, calibration approaches, product quality and development decisions. Your focus will be on understanding the complete flow from instrument behaviour and raw payload data through calibration and correction steps to user facing EO products. You should be able to review processing implementations and system concepts, assess whether they meet their scientific and operational objectives, and guide developers on the required behaviour and validation of processing functions.

Your main tasks

- Review and contribute to the scientific definition of radiometric, geometric and other EO processing methods.
- Provide system level expertise across the complete payload data processing chain and identify dependencies, weak points and appropriate verification approaches.
- Translate payload and instrument characteristics into processing requirements and explain data product and processing implications to Space Segment engineers.
- Review scientific prototypes, processing implementations and relevant software architecture from the perspective of scientific correctness, traceability and fitness for purpose.
- Support the derivation, validation and application of calibration key data and assess whether processing outputs and intermediate data behave as expected.
- Participate in commissioning and operational calibration and validation activities, contribute to product quality assessment, anomaly investigation and definition of appropriate QA/QC metrics and tests.
- Work with Satellite Operations on the interaction between acquisition configuration, Cal/Val activities and downstream processing.
- Review and contribute to technical documentation describing processing algorithms, calibration concepts, product definitions and operational processing workflows.
- Support the onboarding and technical development of less experienced scientists and developers working on EO processing topics.

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Your profile

- MSc or PhD in Remote Sensing, Atmospheric Physics, Optical Engineering, Photogrammetry/Geomatics, Geoinformatics, Astrophysics or a related field.
- Demonstrated senior level experience with Earth Observation satellite ground processing or comparable operational EO processing systems.
- Strong understanding of the end-to-end processing of multispectral/hyperspectral satellite imagery, from raw sensor data through radiometric and geometric processing to higher level EO products.
- Practical experience with calibration and validation of optical EO missions, ideally including commissioning or operational Cal/Val activities.
- Good understanding of the relationship between instrument characteristics, satellite operations, calibration data and ground processing algorithms.
- Experience with radiometric calibration, geometric processing, sensor models, geolocation, orthorectification, atmospheric correction or related EO processing topics.
- Ability to review scientific software and processing implementations and assess whether they correctly implement the intended method.
- Programming experience in Python, C++ or similar languages sufficient to understand, review and prototype scientific processing approaches.
- Experience working across multidisciplinary teams involving satellite engineers, scientists, software developers and operations personnel.
- Ability to communicate complex technical topics clearly across disciplines and to constructively review and challenge technical decisions.

What we offer you here at Marble Imaging

1. You will be part of a NewSpace company that is revolutionizing the world of EO with its own fleet of European satellites.
2. You will have a chance to work in a fast-growing, multi-disciplinary, and diverse team with a strong desire to change the world.
3. Participation in our VSOP (Virtual Share Option Plan).

At Marble Imaging, we are committed to fostering an inclusive and welcoming workplace. We believe that diverse voices bring diverse perspectives that fuel innovation, creativity, and the ability to tackle global challenges effectively. We encourage individuals of all races, ethnicities, genders, sexual orientations, abilities, and backgrounds to join us in our mission to change the EO world. We are an equal-opportunity employer.

Join us on our mission to explore and reimagine the possibilities of VHR EO based analytics and help us tackle global challenges. If space is the final frontier, you will be getting one step closer to reaching it with Marble Imaging. Contact us for questions and information at contact@marble-imaging.de

Contact for this position:
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