

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) team. The team is composed of data scientists, engineers and developers working on the development of the Marble data processing software, EO-based analytics and geospatial portal development.

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 Data Processing Scientist, you will contribute to the development and improvement of the data processing chain for Marble's satellite payload. Your work will focus on ensuring the quality, consistency, and scientific reliability of Earth Observation data products derived from the onboard imaging instruments.

Your main tasks:

- Development and improvement of processing methods for optical Earth Observation data from spaceborne sensors
- Implementation and validation of radiometric and geometric correction methods for satellite imagery
- Support the development of calibration approaches to ensure consistent image quality across acquisitions
- Analysis and evaluation of multispectral imagery to monitor and improve data quality and sensor performance
- Contribution to the development of operational satellite data processing workflows
- Collaboration with payload engineers, software developers, and geospatial analytics teams to optimize the usability of satellite data products
- Support verification and validation activities for Earth Observation data products

Your profile:

- MSc or PhD in Atmospheric Physics, Optical Engineering, Remote Sensing, Astrophysics, Photogrammetry/Geomatics, Geoinformatics, or a related field
- Solid understanding of at least one of: radiometry & calibration, atmospheric correction/radiative transfer, or geometric processing (sensor models, geolocation, orthorectification, co-registration)
- Experience with calibration/validation and quality assurance of EO products (e.g., uncertainty budgets, validation protocols, quality flags/metrics, QA4EO principles)
- Experience working with satellite or airborne Earth Observation data is a strong advantage
- Programming experience in Python, C++, or similar languages
- Experience working with large scientific datasets and data processing workflows

- Ability to work in an interdisciplinary environment combining space engineering, physics, and geospatial data processing

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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Marble Imaging GmbH

Court of Registration: Amtsgericht Bremen, HRB 41893