Research Engineer Position – Optical Remote Sensing for Water Color and Algorithm Development (M/F)

Laboratory: Laboratory of Oceanology and Geosciences – LOG Location: Wimereux, France Contract Type: Fixed-term Research Contract (CDD) Contract Duration: 12 months Expected Start Date: from October 1, 2025 Working Hours: Full-time (35 hours/week) Salary: Starting from €2,847 gross/month, based on experience Required Education: PhD Desired Experience: 1 to 4 years

M Project Overview

This position is part of the TOSCA/CNES-funded **TRISHNA-CLEC** project, which focuses on preparing for the upcoming **TRISHNA satellite mission** dedicated to ocean monitoring. Developed through a French-Indian partnership, TRISHNA will offer high-resolution and high-frequency imagery of Earth's surface in the **solar and thermal infrared** domains. The satellite is scheduled for launch in **2026**.

The Research Engineer will contribute to the **adaptation and development of existing algorithms and models** (including atmospheric correction, the WiPE water mask, sun-glint correction, and suspended matter retrieval models) to suit the specific resolution and capabilities of TRISHNA for **water color remote sensing**.

X Main Tasks and Responsibilities

- Process and analyze TRISHNA simulated imagery
- Adapt and develop satellite data processing algorithms
- Write and contribute to scientific articles
- Present research at TRISHNA-related and international conferences

l Required Skills and Qualifications

Technical Skills:

- Strong programming skills (Matlab, Python, C)
- Experience in satellite remote sensing
- Knowledge of marine and/or atmospheric optics
- Proficiency in statistical data analysis
- Ability to write technical documentation and scientific reports

• Familiarity with specialized software in the field

Soft Skills:

- Autonomy and initiative
- Strong interpersonal and team collaboration skills
- Critical thinking and problem-solving mindset
- Attention to detail, adaptability, and discretion
- Capacity to report on activities and progress clearly

Language:

• Proficiency in English (from B2)

🦁 Work Environment

The position is based at the Laboratory of Oceanology and Geosciences (LOG) in Wimereux. LOG is a multidisciplinary research unit involved in oceanography and marine geoscience, combining field observation, experimental work, and modeling. The engineer will be part of the TELHYD team, which specializes in remote sensing and hydrodynamics.

Additional Information

- Working hours: Monday to Friday, 9 a.m. 5 p.m. (on-site)
- Travel: Occasional travel in France or abroad may be required
- Contract: 12 months, renewable depending on project status
- Salary: Starting at €2,847 gross/month (adjusted based on experience)

• To apply for this position, please send a detailed resume, a letter of motivation and a letter of recommendation to:

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Charles Verpoorter: charles.verepoorter@univ-littoral.fr