

Remote Sensing Scientist - Brussels

Welcome to Rayference

Rayference is a Brussels-based SME active in research and development for radiative transfer modelling, satellite data processing and advanced retrieval algorithm development based on inverse modelling. We provide expertise in remote sensing data radiometric calibration and apply new metrological concepts to satellite observations dedicated to climate and environment monitoring.

Your role

We are hiring a **Remote Sensing Scientist** to support our Earth Observations activities. In this role, you will contribute to the development, maintenance, and operation of a satellite data processing chain to generate Essential Climate Variable (ECV) datasets. Your work will involve analyzing and interpreting satellite data to support aerosol-cloud interaction studies, advancing our understanding of climate processes. In this position, you will:

- Develop and enhance satellite data processing workflows for ECV generation.
- Perform scientific analysis on Earth Observation data, applying statistical and computational techniques.
- Work with satellite datasets and geophysical products, handling formats such as NetCDF.
- Contribute to software development in Python and, where applicable, C++.
- Engage in European R&D projects, collaborating with international partners from academia, research institutions, and space agencies.
- Present your findings at project meetings and contribute to technical documentation and reports.

You will be part of a small, dynamic, and international team, where English is the working language. This role offers the opportunity to work on cutting-edge scientific challenges, with flexibility, autonomy, and room for professional growth.

What you bring

Essential qualifications:

University degree in Engineering, Physics, Mathematics, or equivalent.

At least 2 years of proven experience in programming in the Python scientific ecosystem (such as NumPy and xarray).

Basic knowledge of Linux/UNIX-like operating systems.

Strong analytical skills and the ability to learn new scientific disciplines.

Experience in Earth Observation data processing (familiarity with NetCDF is a plus).

Fluency in English (written and spoken).

What makes you stand out

1 – 3 years of proven experience of programming in modern C++, and distributed computing (preferably Dask).

Excellent skills to fulfil the assigned tasks with great level of autonomy and sense of responsibility.

Ability to plan your work and to cope with tight schedules and multiple tasks.

Good sense of teamwork.

The ability to write accurate and consistent technical documentation and a strong interest for scientific topics such as numerical computing.

Strong motivation to contribute to the development of a young innovative company.

What we offer

At Rayference, you will work with a small, young and international team, in a flexible professional environment. We provide opportunities to make an impact in addressing important scientific and societal challenges linked to climate monitoring and Earth Observation. You will collaborate with passionate and talented colleagues with whom you will share regular team bonding activities. We offer a competitive package, and we value work-life balance; this is why we offer a flexible schedule and the possibility to telework from abroad. We believe in a long-term vision, supporting our staff in developing their best skills and building a career in this field.

The salary for this role ranges from 3.600€ to 4.100€ gross monthly (about 50k € to 57k € annually), depending on experience and qualifications. We offer a range of benefits to support our employees' well-being, work-life balance, and financial security, such as transportation support, internet and phone connection and teleworking allowance.

How to apply

Please send to recruitment@rayference.eu:

- A cover letter explaining your interest in the position, highlighting relevant qualifications and achievements, and including links to examples of relevant prior works;
- a detailed CV;
- email address and affiliations of 2 references.

Only applications sent to this email address will be considered. All documents shall be provided in English. Any questions related to this position can be sent to the same email address. *Applications from women are encouraged.*