



JOB OFFER

Job Opening: Instrument Scientist for solar instruments in space

The ROB/SIDC team is a world-player in space instruments for solar observations, including EUV imagers of the solar corona (SOHO/EIT, PROBA2/SWAP, Solar Orbiter/EUI), UV radiometers (PROBA2/LYRA) and coronagraphs (PROBA3/ASPIICS). The ROB/SIDC team has a leading role in the operations and science analysis of such instruments and, as future science users, participates strongly in the development of science-critical subsystems of such instruments. The ultimate goal of the ROB/SIDC team is to perform state-of-the-art research on phenomena on the solar atmosphere.

ROB/SIDC seeks a new collaborator to participate in the development, the maintenance and the operations of its space instruments to observe the Sun. The current ROB/SIDC expertise is strongly based on the experience with the ongoing PROBA2 instruments. The new collaborator will be invited to share in this experience, and participate in the development of new instruments as the work kicks-off. Three 3 different instruments (EUV imager/radiometer) are in various stages of approval and early design.

The tasks of the instrument scientist will be

1. participation in daily operations of solar space instruments. This includes
 - preparation of the science commanding,
 - monitoring of the instrument health via housekeeping data.
 - characterization of the instrument performance evolution via analysis of calibration data.
2. participation in instrument development. This includes
 - laboratory work to characterise the performance of instruments or their critical subsystems such sensors or filters
 - specification of onboard instrument software
 - conceptual development of future instrument operations

Working at the Royal Observatory of Belgium

The ROB (<http://www.observatory.be>) is a Belgian federal institute in the green outskirts of Brussels (Ukkel). The “Solar Physics and Space Weather” Operational Directorate (<http://sidc.be>) is an international group of scientists, engineers and technicians. New employees at ROB are offered a 1-year contract, which, after mutual satisfaction, can be extended by 1 year and eventually by a contract of undetermined duration. The present position will be at the SW1 salary level (scientific assistant). Social security, pension scheme and working conditions are according to Belgian contractual civil servant regulations. These include a flexible system of working hours and teleworking.



The Profile

The candidates will be selected on the basis of compliance with a maximum of the following criteria:

- Master or PhD in exact sciences or engineering
- Specialisation in astrophysics (solar physics is a plus) and/or, space instrumentation
- Demonstrable hands-on experience with telescope observations and/or laboratory work
- Experience in (semiconductor) detector physics
- Programming skills (Python, C/C++, LabVIEW)

How to apply?

Send a CV, publication list and motivation letter to Dr. Samuel Gissot (samuel.gissot@sidc.be) and Dr. Marie Dominique (marie.dominique@sidc.be) before 2021 October 18. Additional information can be requested from the same people.