The ROB (http://www.observatory.be/) is a Belgian federal institute in the green outskirts of Brussels (Uccle). The ROB solar Physics team (http://sidc.be) is involved in numerous ground-based and space-based projects, as well as several operational services of monitoring and predicting solar activity on the European and international level. The team counts approximately 40 collaborators, mostly scientists from more than eight different nationalities (http://sidc.be).

Newly appointed employees start with a contract of 1 year that, following mutual satisfaction, can be extended with another year and ultimately with a contract of undetermined duration. The present function is available immediately and will be scaled at salary level SW1. The working conditions include a flexible system of working hours and teleworking.

### WE SEARCH FOR

- Master or PhD in Physics, Mathematics or Computation, or Engineering degree with corresponding orientation.
- Working proficiency in English.
- Experience in programming is necessary. Practical knowledge of UNIX, databases (SQL), Python and MS C# would be a plus.
- A background in image treatment and/or advanced statistical analysis (data mining) would be greatly appreciated for this position.
- previous experience in astrophysics or adjacent discipline would also be a plus.

### WE OFFER

A complete application includes a motivation letter and a full CV in PDF format (with details of previous work and study career). Please send your application to frederic.clette@oma.be before April 15 2017.

**How to apply?**

**Your main activities will be:**

- Development of pre-processing software for USET solar images (photometric corrections, coordinates re-mapping, meta-data extraction).
- Development of advanced products (automatic detection of events, synoptic maps, animated sequences of images, standardized bulletin texts for prediction centers).
- Treatment of the data extracted from the sunspot drawings (quality control, statistics). This task could include the improvement of the DigiSun software developed at ROB and its implementation in other Institutes worldwide.
- Possible involvement in the automation the USET telescopes.

Depending on the candidate’s profile, the above-mentioned activities could include scientific research leading to publications centered on the long-term evolution of the Sun and solar cycle properties, in collaboration with the SILSO team. Considering the small size of the SILSO-USET team, and the large diversity of activities, the candidate could also participate in operational daily observations with the USET telescopes, occasionally on weekends.