

Job opening

The Operational Directorate “Solar Physics and Space Weather” of the Royal Observatory of Belgium, in Brussels, is looking for a scientific collaborator to help developing and operating its set of solar radio experiments of the radioastronomy station in Humain (near Marche-en-Famenne). The Observatory currently runs several spectrographs and flux patrol systems that are monitoring, on a daily basis, the level of solar activity over a large frequency range (see <https://www.sidc.be/humain>). These data are used for scientific and operational activities linked to the surveillance of the space weather conditions. We are looking for a candidate with experience in scientific data processing and having a diploma (master’s degree or PhD) either in applied or exact sciences to:

- further develop and validate AI-based techniques for the detection and classification of solar radio bursts
- contribute to the development and maintenance of the different data pipelines
- contribute to the development of new web interfaces for an easier data access or innovative control of new instruments on site.
- contribute to the development and maintenance of software operating the different Software Defined Radio receivers (GnuRadio library)
- contribute to the different calibration procedures

All these activities will be done in coordination with the other team members.

Requirements

- The candidate must have a master’s or PhD degree in applied or exact sciences
- The candidate must be knowledgeable in Python programming, in particular in scientific data processing, and have experience with linux systems, and shell commands.
- The candidate should be willing to do regular field missions in Belgium to work with the rest of the team on instruments.
- A good knowledge of English is necessary
- The candidate should have writing skills for documentation, possibly scientific publications and be willing to contribute to proposals writing for long term funding perspectives (PhD applications, Belgian or international funding opportunities...).

Employment conditions

We offer a one year contract, possibly renewable. The work place is the Royal Observatory of Belgium, a Federal Scientific Institute located in Uccle, a green district in the southern part of the Brussels Region. Employees work 38 hours per week on a flexible time schedule. The job is opened as a SW1 position and the salary will depend on experience in equivalent positions. The selected candidate will work in the activity group 1 – Scientific Research.

People interested should send a CV and a motivation letter in PDF via email to: Christophe Marqué: christophe.marque@oma.be, with copy to dir-rob@oma.be

The deadline for applying is: 31 October 2024, 17:00 CET / 16:00 UT