



# JOB OFFER

THE ROYAL OBSERVATORY OF BELGIUM SEEKS A  
POST-DOCTORAL SCIENTIFIC COLLABORATOR  
FOR THE "LARGE-MEM" PROJECT



**Your main activities, in collaboration with  
Dr Thomas Lecocq, will be:**

This position is open within the Uccle Seismology-Gravimetry Service (<http://seismologie.be>) at the Royal Observatory of Belgium. The activities of the service include instrument development, ground motion acquisition using seismic and accelerometric stations, real time monitoring, reporting and alerting of the seismic activity in and around Belgium. They also include the monitoring of the absolute gravity changes. In parallel to the monitoring duties, the SG scientists study many aspects of intraplate seismicity, ground motion and time-dependent physical properties of the upper crust. These activities are funded by the internal budget of the Royal Observatory of Belgium. This offer is made possible by the federal BRAIN.be LARGE-MEM project.

- Deploy a dense seismic network on the field 3 times, at least for one month
- Process the seismic data using the MSNoise cross-correlation software.
- Study time-dependent seismic velocity changes
- Produce tomographic maps
- Compare results with the continuous gravimetric, temperature, rain gauge, soil moisture and electrical resistivity time series

The above-mentioned activities include scientific research leading to publications centred on the time-dependent behaviour of the physical properties of a forested hill in temperate regions.

More information on the LARGE-MEM project:

<http://seismologie.be/large-mem/index.html>

## **WE SEARCH FOR**

- PhD in Geophysics, Physics or Earth Sciences or equivalent. The candidate should have graduated before the beginning of the contract.
  - Working and writing proficiency in English.
  - Minimum 3 years' experience in Python programming
  - Minimum 3 years' experience in processing seismic noise.
- Plus**
- Practical knowledge of UNIX and databases (SQL).
  - Basic knowledge of French and/or Dutch.

## **HOW TO APPLY?**

A complete application includes a motivation letter, a full CV in PDF format and two brief recommendation letters.

Please send your application to [Thomas.Lecocq@oma.be](mailto:Thomas.Lecocq@oma.be) before 1 October 2017

## **WE OFFER**

The ROB (<http://www.observatory.be/>) is a Belgian federal institute in the green outskirts of Brussels (Uccle). The ROB Seismology-Gravimetry team (<http://seismologie.be>) is involved in numerous research projects, as well as an important operational service of monitoring the seismic activity in and around Belgium. The team counts 16 collaborators.

This position is a fixed-term position of 1 year for a post-doc (salary level SW1). Advantages included a flexible system of working hours and teleworking.