

The Universite catholique de Louvain is seeking 1 post-doctoral research fellow to support climate modelling activities.

Profile

The candidate holds a master or a PhD in mathematics or physics and he is familiar with both stochastic dynamical systems and Bayesian statistics. The candidate has a researcher profile, capable of autonomy, willing to interact with a group, and capable of respecting a research agenda.

Previous experience with climate science-related aspects, and more particularly palaeoclimates, is a decisive advantage. Knowledge of FORTRAN, C and of the statistical software R is essential. The candidate has a good knowledge of English. Working knowledge of French is an advantage.

Job description

Duties are carried out in the context of the European Research Council project ITOP : Integrating Theory and Observations of the Pleistocene. The objective is to develop and apply techniques for the calibration of stochastic dynamical models of ice ages on palaeoclimate data, with the purpose of doing inference on the dynamical structure of the climate system as well as on climate and the chronology of climate records. The candidate will interact with professional statisticians active in UK and in Ireland and will benefit from in-house expertise on the climate system and dynamical systems. The methodologies include Approximate Bayesian Computations and Particle Filters.

The job holder will also contribute to the supervision of a PhD thesis.

Career opportunities

The candidate will be employed on fix-term contract. European Research Council projects are high-profile initiatives with the ambition of developing a growing research agenda and environment, proper to provide a stimulating working environment to the candidate for several years at least.

Environment

The candidate will be formally employed by the Universite catholique de Louvain <http://www.ucl.ac.be>, within the 'Georges Lemaitre Centre for Earth and Climate Research', located in the multi-cultural town of Louvain-la-Neuve, approximately 35 km South of Brussels.

Candidates may apply with a CV, motivation letter, and names of 3 potential referees at their earliest convenience to itop@uclouvain.be.