



Position Announcement Postdoctoral Research Associate

in

Crop Modelling and Application for Climate Change Adaptation

Specialities: Crop modelling, crop physiology

Hosting Lab: Ecophysiology Laboratory of Plants under Environmental Stress (UMR759 LEPSE), INRA-SupAgro Montpellier, France (<http://www6.montpellier.inra.fr/lepse>)

Duration: 18 to 23 months

Salary: 27 726 € to 34 005 € depending on experience

Starting date: As soon as possible

Job description

The successful candidate will develop his (her) research in the frame of the EU project WHEALBI. The objective will be to identify, through simulation (optimization), wheat and barley ideotypes better adapted to target populations of environments, including conditions of climate change. You will use the crop simulation model *SiriusQuality* (<http://www1.clermont.inra.fr/siriusquality/>), which has been calibrated and evaluated for several cultivars under a wide range of environments. Constitutive (i.e. expressed in all environments) and adaptive (i.e. expressed under specific environments) traits will be optimized through simulation to meet yield and grain protein concentration and composition objectives under contrasted climates and resources (water and nitrogen) availability. The successful candidate will also contribute to the development and improvement of *SiriusQuality*. This project will deliver a list of traits and ideotypes whose value will be assessed in the field within the project.

Education and Experience Requirements

Strong background in crop physiology and crop modelling is required. Working experience with object oriented programming is highly desirable. Experience in using R or Matlab software is also desirable. The incumbent is expected to have excellent oral and written communication skills. Organizational skills and the ability to work collaboratively with various research groups are essential.

Application conditions

Candidate of any nationality may apply. The candidates must be doctor at recruitment date (French doctorate, PhD or foreign doctorate of equivalent level).

Applications

Applicants should submit a letter of interest, a complete curriculum vitae which includes a list of publications and the names and addresses (including telephone and email) of three referees who are knowledgeable about the applicant's professional qualifications and work experience. Send application package to Dr Pierre Martre (pierre.martre@clermont.inra.fr). Applications will be received until a suitable candidate is found.