Spatial modelling of Ecological Compensation dynamics

**Project**

We offer a 17-months postdoctoral position within the research project COMPAG that studies the links between agriculture and the ecological compensation public policy. The position is more precisely related to the WP4 entitled “Bioeconomic models - scenarios of ecological compensation public policies” under the supervision of Dr. Rodolphe Sabatier (INRA-Ecodéveloppement) and Dr. Lauriane Mouysset (CNRS/Université de Bordeaux-Gretha). Within this WP, your task will be to develop a spatially explicit model of agrolandscape dynamics. This model will combine agro-ecological with socio-economic components. The model should enable a multi performance analysis of different scenarios of Ecological Compensation policies thanks to a variety of environmental, production and economics metrics. These scenarios will be co-designed with partners of the project in order to account for a wide range of stakeholder preoccupations.

**Profile**

- PhD degree and experience in modeling (that is to say in the development, programming, and analysis of simulation models) applied to environment, agricultural systems, ecosystem or landscape dynamics.
- Skills in computational languages (such as Python, C, Matlab/Scilab or R)
- Good command of statistics and mathematics
- Interest in interdisciplinary research is required. Experience of interdisciplinary research with agroecological sciences, economics, sociology or law are a plus.
- Proven experience with sound and time-efficient writing of modeling papers
- Proficiency in English

The job (17 months) will be based in Avignon (France) with possible stays in Bordeaux (France) and will be conducted in close collaboration with Dr Sabatier, Dr Mouysset and other partners of the project.

Please send your application electronically as a single pdf containing the usual documents by **November 1st, 2018** to rodolphe.sabatier@inra.fr (Dr. Rodolphe Sabatier, UR Ecodeveloppement, INRA).

If you have any questions, please contact Rodolphe Sabatier (email: rodolphe.sabatier@inra.fr) or Lauriane Mouysset (email: lauriane.mouysset@u-bordeaux.fr).

Further information on the research project can be found at: [http://www.agence-nationale-recherche.fr/Project-ANR-17-CE32-0014](http://www.agence-nationale-recherche.fr/Project-ANR-17-CE32-0014)