



LA SCIENCE
AU CŒUR
DE L'ENVIRONNEMENT

The Biodiversity Group at the *Land, environment, remote sensing and spatial information Lab* is opening a post doc position for 16 months

The recruiting team conducts work in the field of mapping and predicting the distribution and quality of habitat for both animal and plant species. You will work on two projects that share a common interest in spatial habitat modelling at different scales. You will first be involved on a National level effort to model plant species distribution and to carry out a national mapping of natural and semi-natural terrestrial vegetation in France. Recent work has been initiated to map homogeneous ecological zones based on floristic data. We used a network approach to identify and characterize Mediterranean biogeographical regions (Lenormand et al. 2018). The objective will be to couple this approach with plant species distribution models for more accurate habitat mapping. You will also work in the framework of a EU-BIODIVERSA BONDS project (**Balancing biOiversity conservatiON with Development in Amazon wetlandS**) by modelling several species using a Joint species distribution models (JSDMs) approach. Some of the environmental data must be derived from satellite images at different scales. For BONDS we aim to provide an integrated and novel modelling and analytical framework in order to guide conservation efforts oriented to improve landscape connectivity at different spatial scales.

Context of the position:

The successful candidate will work at the Integrated Unit TETIS *Land, environment, remote sensing and spatial information*, as part of the National Research Institute of Science and Technology for Environment and Agriculture Irstea, based at Montpellier, France <https://www.umr-tetis.fr/index.php/fr/>.

He/she has a proven track record in one or more of the following fields: Joint species distribution models (JSDMs), environmental modelling, eco-informatics, computational ecology, geography or equivalent with strong background on Spatial Information Systems. Expertise in remote sensing is an added value. Skills in statistical modelling, programming, spatial analysis and geomatics

The candidate needs to have the ability to work in interdisciplinary environments having excellent English proficiency skills, knowledge in French will be a bonus. Excellent communication and writing skills. Demonstrate a solid interest for ecology, macro-ecology, landscape ecology. High proficiency in R is needed and/or Computer Programming Skills in Python

To apply: send your CV and letter of motivation before 25th July 2019 via electronic mail to:

Sandra.luque@irstea.fr & maxime.lenormand@irstea.fr

Note: only shortlisted selected candidates will be contacted for an interview.