

20 months **Postdoctoral fellowship**: Experimental studies on invasion process in a dragonfly species. At the Field Station of Experimental Ecology in Moulis, France (CNRS d'ŽV USR 2936) Project objectives The position is offered within a pan-European project, Probis (Biodiversa, <http://biodiversa-probis.weebly.com/>).

PROBIS aims at characterizing patterns of traits variation, and test for the underlying evolutionary processes along an invasion succession. More generally we aim at determining how the genetic and phenotypic heterogeneity of invasive populations along and age-gradient of invaded habitats is expressed, and how this may influence the invasion success and rate of non-native species establishment. The post-doc fellow will primarily work on the dragonfly aspect of the project. This project will focus on /Crocothemis erythraea/, a dragonfly originated from Mediterranean areas and naturally expanding its range northwards through Europe. In 2014, we first sampled populations along a South-North gradient to isolate changes in the genetic diversity of populations, so as to then identify specific populations that will be used for experimental works. For the next steps, we will use 6 populations of different ages since the invasion started across Europe. The post-doc fellow will quantify the variation and plasticity of phenotypic traits associated to each invasion steps and create semi-natural populations into an experimental metapopulation system (Metatron, <http://www.ecoex-moulis.cnrs.fr/spip.php?rubrique5>) to experimentally measure population invasiveness. Task of the postdoctoral fellow The recruited researcher will be in charge of 1) collecting dragonfly larvae in 6 populations across Europe, 2) maintaining larvae in lab facilities, 3) planning and performing phenotypic measurements (morphological and behavioral), 4) maintaining and monitoring semi-natural populations and movements between populations and 5) analyzing data and writing articles. This work will likely lead to, at least, two articles as a first author. Required skills Able to manage research and administrative activities Knowledge in biological invasions and/or evolutionary ecology in general. Knowledge in entomology and possibly dragonfly biology and rearing. Able to actively participate as a member of a research team. Good written and verbal communication skills Able to spend some time travelling abroad Experience in experimental design Experience with data manipulation and statistical analysis (including mixed models)

**Closing of the applications: 15/02/2015**

Effective start date: 01/04/2015 Gross monthly salary: ~1850 d'Ž d'Ž free of taxes

Applications to be sent to / Information to be taken with: Thank you for sending CV, cover letter and contact details of at least two references. Contact Dr. Simon Blanchet Email : [simon.blanchet@ecoex-moulis.cnrs.fr](mailto:simon.blanchet@ecoex-moulis.cnrs.fr) Phone : 05 61 04 03 61 Dr. Julien Cote Email : [julien.cote@univ-tlse3.fr](mailto:julien.cote@univ-tlse3.fr)

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