



2013-IPR-H-20-000-2234

Ecological Modelling for measuring loss of biodiversity & ecosystems

Position for:

CATEGORY 20

The IES Action 'MONDE' (Monitoring Natural Resources for Development) Action is looking for a highly motivated PhD candidate to support our global modelling activities and improve means to assess impact assessment on biodiversity and ecosystem services considering different policy scenarios affecting our environment (e.g. climate change, biofuel, agriculture ...).

In the context of the PhD project, the objective is to develop, implement, and test methodologies quantifying loss of biodiversity and ecosystem services in areas where land cover change is occurring.

Main tasks include:

- the development of methods and indicators for quantifying loss of biodiversity and ecosystem services at the global scale;
- the development of associated algorithms to compute the above indicators in support to our web based modelling services;
- the publication of use cases illustrating the methodology.

Qualifications:

The ideal candidate should have a University degree (giving access to the PhD) in biological sciences, ecology, agronomy or a closely related science. Expertise in ecological modelling, scientific programming (R) and use of GIS is essential. Experience in remote sensing is an asset. The candidate is expected to have excellent knowledge in spatial statistics.

Relevant publications should be highlighted.

Very good knowledge of spoken and written English is required. Knowledge of French or Spanish is an asset. Good communication and inter-personal skills and ability to work in a team are essential.

Institute Unit Action	Institute for Environment and Sustainability Land Resource Management MONDE (Monitoring of Natural Resources for Development and Cooperation) Further information: http://ies.jrc.ec.europa.eu/the-institute/units/land-resource-management.html
Indicative duration Preferred starting date	36 months ASAP
JRC Site Country	Ispra Italy
Rules	Grantholders: http://ec.europa.eu/dgs/jrc/downloads/jrc_granholder_rules.pdf