

Research assistant position, 10 months
at Agrocampus Ouest (Rennes France)

Project Fish Forward 2: It's getting hot down here – Warming Oceans and Effective Adaptation in a Changing Climate,

Skills required

- . Master's degree in fisheries science or Environmental science,
- . Knowledge on fisheries management and governance, and on climate impacts on marine resources and fisheries,
- . Sound interest for studying environmental management in developing countries and international equity,
- . Proficient in oral and written communication in English; ability to interact with colleagues and partners in English and French,
- . Experience in project coordination and workshop organization would be welcomed

Application

- Application deadline: **15 January 2019 – interview of applicants will be organized on January 18th** (to be confirmed)
- Starting date: 1st of March 2019
- Location: Agrocampus Ouest (Rennes, France) + 3 months at the University of British Columbia (Vancouver, Canada). Two workshops, each to be held in Africa and Asia.
- Net salary: around 1700 €/month
- Supervision: Didier Gascuel (Agrocampus Ouest) and William Cheung (Changing Ocean Research Unit, UBC, Vancouver, Canada); collaboration Yoshitaka Ota and Juan Jose Alava
- Funding of the project: WWF Denmark and European Commission

To apply, send CV, covering letter and supporting information to: Didier.Gascuel@agrocampus-ouest.fr (For more information also contact D. Gascuel)

Scientific context

This FF2 project “*It's getting hot down here – Warming Oceans and Effective Adaptation in a Changing Climate*” will be undertaken by a team of interdisciplinary researchers that includes world leading experts on climate change effects on marine biodiversity and fisheries, as well as fisheries assessments and governance. Based on case studies analyses, the project aims to assess the climate risk and vulnerabilities of fisheries in developing countries and evaluate options for adaptation to reduce climate risk for fisheries in these countries. Specifically, the project team will apply state-of-the-art modelling and analytical tools, and combine with engagement with local stakeholders, to: (1) assessment of climate risk under different fisheries scenarios, (2) identification of possible adaptation options and (3) examination of the effectiveness, co-benefits and trade-offs of the identified adaptation options. Key project outcomes include a ranking of climate risk of fisheries in developing countries, and for countries from

three of the regions with the highest risk, possible adaptation options and their opportunities and limitations in supporting the development of climate-resilience adaptations

Research Assistant work

Under the supervision of D. Gascuel and W. Cheung, the research assistant will conduct the project. This especially includes the four following steps:

1. Desktop based assessment of vulnerabilities and impacts based on existing data and literature. Based on the framework developed by Cheung et al. (2018) an index of vulnerabilities and risk of impacts to climate change (including ocean acidification) and fishing will be calculated, to understand the vulnerability of coastal developing countries to climate risks or/and climate change hazard
2. Review of available known options and intervention for climate risk reduction. A comprehensive literature review and assessment will be undertaken, the outcomes of which will be a list of potential options for adaptation in fisheries.
3. Organize two stakeholder workshops (one in Africa, the other in Asia; places still to be defined; a third case study will be conducted in south America by Juan Jose Alava), with the help of local WWF offices, to explore the suitability, effectiveness and potential trade-offs of these pre-identified options for each case study.
4. Produce a report with chapter for each case study. The objective of the report is to assess the adaptive capacity of the fisheries in the case study area to climate change. Specifically, the report includes: 1) assessing countries' social-economic-political conditions that are important enabling conditions for successful implementation of the adaptation option; 2) identifying and assessing food security issues in selected developing countries in the face of regional climate change; 3) exploring and documenting the traditional knowledge, local knowledge and resource management practices that support climate adaptation in fisheries ; and, 4) compiling local experiences with climate change impacts on fisheries and adaption measures in the selected countries.

The works to be undertaken by this position will contribute to identifying a portfolio of adaptation options for the countries where the case studies are located at, focusing on climate risks on coastal fishing communities, marine fisheries and fish, and food security issues.