

Postdoctoral position in modeling applied to fisheries science

IRD (Institute of Research for Development) is recruiting a postdoctoral researcher with a strong modelling background in quantitative ecology, fisheries science, applied mathematics or physics, to work within a team of researchers within the MARBEC research unit (www.umr-marbec.fr).

The postdoc will interact with Dr. Manuela Capello, Dr. Laurent Dagorn and the team of researchers involved in the MANFAD project (MANaging FADs www.manfad-project.fr). The MANFAD project is a collaborative research project which involves partners from the MARBEC lab, as well as international partners (CFR/Indonesia). The project aims to develop a FAD (Fish Aggregating Devices) management tool to help managers setting policy measures to mitigate the impacts of these devices and ensure the sustainability of tropical tuna fisheries exploiting FADs in the Indian ocean.

The specific task of the postdoc will consist in developing an operating model accounting for the tuna associative dynamics at Fish Aggregating Devices (FADs), with the goal of using this operating model to simulate the effects of different FAD management options on the ecosystem and fisheries. The model will be parametrized using catch data, electronic tagging data and acoustic data from echosounder buoys.

We are looking for a candidate with strong analytical and modelling skills, with interests to apply models to fisheries science, able to work in a team of researchers. A good knowledge of population dynamics and previous experience of model fitting to real data is essential, as well as proficiency with R, Python or other programming languages (e.g.:C, C++, FORTRAN). A background in stock assessment is a plus.

The postdoc could start on 1st of September 2022. The position is funded for 18 to 24 months, depending on the applicant's experience.

Applicants should send a cover letter describing their interest in the position, a curriculum vitae, and name and contact information of three references to: manuela.capello@ird.fr. Applications may be submitted in either English or French and should be sent no later than **1st of May, 2022** in electronic format.

For additional information on the position, please contact manuela.capello@ird.fr.