

JOB DESCRIPTION

Job Title:	Post-Doctoral Researcher – Trade Hub (quantification of ecosystem service feedbacks within integrated assessment models)
Job Reference No:	AD1188
Programme:	Science Programme
Grade:	D+
Line Manager:	Senior Programme Officer

MAIN PURPOSE OF THE JOB

This is a 3 year post-doctoral research post to be based within the Science Programme at UNEP-WCMC, and working with the GCRF TRADE Hub Project team that has over 150 members globally. The main purpose of the job is to explicitly link ecosystem service (ES) feedbacks within Integrated Assessment models (IAMs) to produce more realistic IAM outcomes, and to explore the impact of these using the pathways outlined in the 'Bending the Curve' analysis led by IIASA in Austria.

KEY AREAS OF RESPONSIBILITY

The researcher will be engaged in modelling using large global databases and integrated assessment models. S/he will work as a dedicated post-doctoral researcher on the GCRF TRADE Hub, focusing efforts within the modelling and scenarios work package and working in collaboration with partners in the UK, Austria, Brazil, Indonesia and the USA. The key areas of work are as follows:

- Linking ecosystem services feedbacks into the GLOBIOM Integrated Assessment Model in partnership with IIASA and the Natural Capital Project in the USA
- Assessing how the feedbacks alter the GLOBIOM spatial outputs
- Working with IIASA to link the refined GLOBIOM model outputs with novel trade scenarios
- Working with biodiversity and ES modelling scientists to examine likely futures for biodiversity and ES
- Assessing the possibility to link the results of the ES futures coming from the modelling work to the GTAP or other economic databases to calculate the potential GDP outcomes of different nature-positive futures within Bending the Curve

- Assessing the possibility to use the knowledge gained from the refinement of the GLOBIOM outputs within other IAMs
- Writing relevant papers, presentations, policy briefs or other dissemination products tied to the GCRF TRADE Hub theory of change and impact pathways
- In collaboration with colleagues, actively work to co-design modelling processes with intended end-users and engage with these end-users throughout the course of the work, ensuring that results are delivered in accessible formats

OTHER DUTIES

- Undertake any other duties as required from time to time, commensurate with the level of the post, including the supervision of junior staff, consultants, or interns.