GEORG-AUGUST-UNIVERSITÄT GÖTTINGEN

FAMILIE IN DER HOCHSCHULE CHARTA unterzeichnet 2014

The Collaborative Research Centre 990 / CRC 990 (http://www.uni-goettingen.de/EFForTS/) at the Georg-August-Universität Göttingen is offering the position of a

Postdoctoral researcher (all genders welcome)

in the **Scientific Project B10 "***Landscape-level assessment of ecological and socioeconomic functions of rainforest transformation systems in Sumatra (Indonesia)"* at the Ecosystem Modelling department.

The position will be filled as soon as possible; funding ends in Dec 2023. Salary: The salary is in accordance with the German public service salary scale TV-L E13 (100%), which corresponds to 39.48 working hours per week.

Job description

Tropical rainforest landscapes are being transformed into agricultural systems, dominated by smallholder oil palm and rubber plantations in Indonesia. This has contrasting effects on biodiversity and ecosystem functions and the livelihoods of smallholder farmers (for a first analysis see Grass et al. 2020 Nat Comm 11: 1186). The goal of the postdoctoral position is to identify policy scenarios and landscape characteristics that increase ecosystem services and biodiversity, while having minimal impact on the economic benefits. This will be achieved via agent-based modelling, i.e. by refining and analysing EFForTS-ABM, an integrated ecological-economic land-use change model (see Dislich et al. 2018 PLOS ONE 13: e0190506). EFForTS-ABM is coded in NetLogo, additional software is coded in R (including a spatially-explicit community biodiversity model (not yet published) and a framework for reproducible NetLogo model analyses (Salecker et al. 2019 MEE 10: 1854-1863). The position is part of the EFForTS (Ecological and Socioeconomic Functions of Tropical Lowland Rainforest Transformation Systems) project, www.uni-goettingen.de/efforts, and thus builds on a wealth of field data (https://tinyurl.com/y6qllae2) and opportunities for interdisciplinary collaboration.

Your tasks will be the following:

- Disseminate research outcomes in peer-reviewed publications and at professional conferences.
- Refine EFForTS-ABM, conduct landscape-level optimization studies, evaluate potential policy measures
- Co-supervise PhD students and research assistants
- Actively participate in collaborations within the EFForTS project

Your profile

- PhD in ecology, forestry, environmental sciences, computer sciences, statistics, or a related field
- Demonstrated record of scientific publications in ecology, ideally in tropical ecology, biodiversity, and ecological economics
- Demonstrated experience with programming and analysis of simulation models (preferentially using R and NetLogo)
- Willingness to take on a leading role in the collaboration among the interdisciplinary researchers of EFForTS
- Proficiency in English.

Desirable:

- Demonstrated experience with statistics, ecological-economic modelling, agent-based modelling, socio-ecological systems theory

The University of Göttingen is an equal opportunities employer and places particular emphasis on fostering career opportunities for women. Qualified women are therefore strongly encouraged to apply. The university has committed itself to being a family-friendly institution and supports their employees in balancing work and family life. The mission of the University is to employ a larger number of severely disabled persons. Applications from severely disabled persons with equivalent qualifications will be given preference.

To apply

Initial deadline for accepting applications is March 10, 2021. If not filled, reviews will occur every week thereafter until the search is closed. To apply, candidates must submit the following documents in a single pdf-file to

https://lotus2.gwdg.de/uni/uzdv/perso/knr_100815.nsf

- Cover letter describing your relevant experience and interest in the position
- Curriculum vitae including a list of publications
- 1 related publication
- Contact information for two references (including name, phone number and email).

If you have any questions, please contact Prof. Dr. Kerstin Wiegand (kwiegan1*uni-goettingen.de). Information about the Ecosystem Modelling department can be found at http://www.uni-goettingen.de/EcoMod/

Please note:

With submission of your application, you accept the processing of your applicant data in terms of data-protection law. Further information on the legal basis and data usage is provided in the Hinweisblatt zur Datenschutzgrundverordnung (DSGVO)