

We invite applications for a

## PhD position in Socio-Economic Land-Use Modelling with a special focus on Tropical Agroforestry

TV-L E13 65 % (01.11.2017-31.10.2020)

### About us

The Institute of Forest Management exists since 2005 and carries out research into all aspects of sustainable forest and land use (ecology, economics and social concerns) on a larger spatial scale, beyond the forest stand up to the landscape level. We offer a research position, funded by the German Research Foundation (DFG).

The PhD candidate shall investigate the potential of agroforestry to reduce land-use conflicts in Panama.

### Your profile

- Strong personal commitment to research
- Above average university degree (Diploma/M.Sc.) in Forest or Agricultural Sciences, or a related subject
- Demonstrated proficiency in speaking and writing English are necessary requirements
- Demonstrated interest to work in programming based land-use modelling and empiric socio-economic research methods
- Willingness to carry out socio-economic field work during several weeks in Panama
- Previous research experience in the tropics and ability to communicate in Spanish is a plus
- We expect the candidate to have good communication skills and the ability to work in a team

### Tasks

You will be a team member of the research project *"Using mechanistic land-use models to explore the potential of agroforestry for enhancing ecological and economic functions"*. The research seeks to develop a mechanistic land-use modelling approach for multifunctionality to identify the conditions under which agroforestry could contribute to bringing together public and private interests. For this purpose, novel single- and multi objective optimization approaches will be further developed. The land-use model will also build on empiric socio-economic research methods (interview based) and biophysical process-based growth modelling. The candidate will be expected to communicate research results through scientific articles in peer-reviewed journals.

### We offer

- Opportunity to pursue a PhD and carry out research in an inspiring, interdisciplinary research atmosphere.
- The Technical University of Munich (TUM) is a leading research university in Europe. We offer excellent working conditions, enrollment in the TUM Graduate School, and an international research environment.
- A salary in accordance to the Public Sector Collective Agreement on Länder; TV-L E13 (65 % of a full-time position). The project duration is from 01.11.2017-31.10.2020. The contract will therefore be limited to 36 months.
- TUM is an equal opportunity employer. Qualified women are therefore particularly encouraged to apply. Applicants with disabilities are treated with preference given comparable qualification.

### **Your application**

We are looking forward to your application until September 18, 2017 (the latest). Your application documents should contain a CV, certificates, a letter of motivation (including your past and future research interests) and possible references with contact details of the referees. Application documents in electronic form should be compiled to one .pdf file. File size should not exceed 8 MB.

Please send your application by email to: [ifm@forst.wzw.tum.de](mailto:ifm@forst.wzw.tum.de), or via mail to:

Technische Universität München  
Fachgebiet für Waldinventur und nachhaltige Nutzung  
Dr. Carola Paul  
Hans-Carl-von-Carlowitz-Platz 2  
85354 Freising

For further inquiries please contact Dr. Carola Paul (Tel. +49 8161 71 4699, [carola.paul@tum.de](mailto:carola.paul@tum.de)).