Faculty of Environmental Sciences

At the Department of Forest Science, Institute of Forest Growth and Forest Computer Sciences, the Chair of Forest Biometry and Systems Analysis offers, at the earliest possible date, a project-position as

**Research Associate Ecological Modeller**

(Subject to personal qualification, employees are remunerated according to salary group E 13 TV-L)

The position is limited until 30.09.2022. The period of employment is governed by § 2 Abs. 2 Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG).

The position is advertised within the framework of the PEKRIS II research project, which is being carried out in cooperation with the University of Oldenburg (responsible for the empirical part) and TU Dresden (responsible for modeling).

**Tasks:** The successful candidate is expected to work with two existing individual-based krill and salp models, which are to be further developed by introducing temperature-dependent reproduction submodels, a description of the interactions between krill and salps, and the explicit projection of primary production. The development and integration of a fisheries module is finally foreseen to derive knowledge-based methods to be tested by means of simulation experiments to support the future management of krill stocks in the Southern Ocean.

**Requirements:** Master's degree in natural or environmental sciences (e.g. ecology, physics, environmental systems analysis, applied mathematics or hydrology); active experience in the development of simulation models (preferably individual or agent-based); solid knowledge in object-oriented programming (knowledge of NetLogo and Python is welcome); Fluency in English (written and spoken); German may be beneficial but not necessary; Ability to work independently and integration within a collaborative team environment in Germany and abroad (Canada and Australia). Strong motivation, willingness and curiosity to familiarize oneself with an exciting research field of the Southern Ocean.

For further information and inquiries, please contact Prof. Dr. Uta Berger, e-mail: uta.berger@tu-dresden.de and our homepage (http://tu-dresden.de/forst/sysan).

Applications from women are particularly welcome. The same applies to people with disabilities.

Please send your application including the usual documents (a cover letter outlining their motivation to work with us in the frame of this project and their CV, including a list of publications, relevant certifications, the two most significant publications for the open position (i.e., journal publications, PhD thesis) and the contact information of two referees) preferably via the TU Dresden SecureMail Portal https://securemail.tu-dresden.de by sending it as a single pdf document to uta.berger@tu-dresden.de or to TU Dresden, Fakultät Umweltwissenschaften, Fachrichtung Forstwissenschaften, Institut für Waldwachstum und Forstliche Informatik, Professur für Forstliche Biometrie und Systemanalyse, Frau Prof. Dr. Uta Berger, Pienner Str. 7, 01737 Tharandt. Deadline for applications is 11.12.2019 (stamped arrival date applies). Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.

Reference to data protection: Your data protection rights, the purpose for which your data will be processed, as well as further information about data protection is available to you on the website: https://tu-dresden.de/karriere/datenschutzhinweis