The Chair of Forestry Economics and Planning at the Albert-Ludwigs-University of Freiburg, Germany (Prof. Dr. Marc Hanewinkel) is seeking a

Postdoctoral Researcher in the field "Impacts of extreme windstorms on forest ecosystems in central Europe"

Part-time position (70 %) Start-date: At the earliest possible date.

Windstorms are the main disturbance agent in European forests, and have caused major economic damage to forest ecosystems in the region. The frequency and intensity of windstorms are expected to be affected by climate change in the future and modify forest ecosystem dynamics. These kind of disturbances will become a main driver of changes in ecosystem functioning and will affect the provision of multiple ecosystem services related to forests. It is crucial, therefore, to understand the impacts of changing disturbance regimes on forest ecosystem services and the related socio-economic implications for forest management. The WIND subproject of the climXtreme consortium https://www.climxtreme.net has the aim to address this issue via a coupled ecological-economic modelling approach.

The **Chair of Forestry Economics and Forest Planning** (https://www.ife.uni-freiburg.de/) has long experience in developing and applying ecological-economic forest models. The group involves a wide range of empirical and process-based forest growth models for socio-economic analysis of forest management decisions. Application of decision-making approaches to identify optimal adaptive forest management strategies to deal with forest risks and considering multiple ecosystem goods and services has been the focus of many recent research projects and is part of ongoing research. Therefore, the position provides a great and unique opportunity to pursue a world class forest system analysis in a close collaboration with the team.

The tasks of the postdoctoral researcher will include:

- Follow up the further development of tree-level wind disturbance models
- Coupling wind disturbance models with a process-based forest growth model in close cooperation with the partners in the project
- Economic valuation of windstorm impacts on forest ecosystems, including multiple ecosystem services
- Analysis of risk and impact of windstorms to the railway infrastructure and evaluation of adaptive management strategies

Essential experience, skills and characteristics:

You have a Doctoral degree in a relevant discipline from an internationally recognized university. You have expertise in forestry or environmental sciences, with a strong background on statistical methods and economic analysis. You take an analytical approach to your research and have a strong publication record. You have excellent communication skills (both written and oral) in English.

We offer:

- A cutting-edge research project in a large scientific cooperation network in a timely and relevant topic
- Outstanding integrative research environment, with many networking opportunities

Terms of employment:

This is a fixed term position until 28.02.2023, with a 70% contract remunerated according to TVL-13 starting as soon as possible.

All applications should include:

- A Cover letter describing the motivation for joining the project, research interests and relevant experience
- Curriculum vitae incl. publication list
- Names and contact details of at least two scientific references

Please send your application as a single PDF file to forecon@ife.uni-freiburg.de.

For more information regarding the details of the position, you may contact

Prof. Dr. Marc Hanewinkel (marc.hanewinkel@ife.uni-freiburg.de).

University of Freiburg
Chair of Forestry Economics and Forest Planning
Tennenbacher Str. 4
79106 Freiburg