

The **Chair of Forest and Land Management and Wood Processing Technologies** at the **Institute of Forestry and Engineering** of the **Estonian University of Life Sciences** in Tartu, Estonia, invites applications for:

PhD position:

Modelling of spatially explicit forest ecosystem-atmosphere exchange and forest growth patterns.

Your tasks:

- Analysing Eddy covariance data from the SMEAR Estonia station.
- Building a data processing pipeline to link flux measurements and forest models spatially over the flux tower's footprint area.
- Training machine learning models (ML) for carbon uptake estimations using available SMEAR data since 2015 and add new data.
- Applying the ML models with near-real-time data for carbon uptake predictions.
- Testing the scalability of the estimation system towards a production solution.

Your profile:

- You have completed studies in forestry, biology, ecology, mathematics, chemistry, or physics or related fields.
- You have some skills in programming languages like Python, R, or MATLAB.
- Knowledge on GIS and database systems is a plus.
- You have and active interest in learning new techniques, take the initiative for new solutions; being able to work independently in a collaborative and interdisciplinary research team.
- Good communication skills in English are required.

We offer:

Our Chair is based on an interdisciplinary, innovative, and dynamic collaboration. You will profit from a systematic training on the job, in addition to personal development possibilities and our pronounced vocational training culture. If you wish to optimally combine work and family life or other personal interests, we are able to support you with our modern employment conditions and the on-site infrastructure.

For further information, please contact Prof. Dr. Steffen M. Noe, email steffen.noe@emu.ee; phone +372 59 192 254.

Please submit your application by 31 May 2022 (including addresses of referees) for the position as a PhD Student.

Chair of Forest and Land Management and Wood Processing Technologies, Institute of Forestry and Engineering, Estonian University of Life Sciences, Estonia

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