



TALLINN UNIVERSITY

School of Natural
Sciences and Health

Doctoral thesis topic for 2026/2027 admission in "Complex Systems in Natural Sciences" curriculum

PhD position in Surface water and Groundwater Hydrology

School of Natural Sciences and Health, Tallinn University

Supervision: Dr. Oliver Koit

Location: Tallinn, Estonia

Start date: Flexible, ideally Autumn 2026

Funding: Fully funded (4-5 years)

This topic will focus on **interactions between surface water and groundwater** under changing climatic and land-use conditions. The work combines **field hydrology, data science**, and **hydrological modelling** to understand how surface water and groundwater move, mix, and evolve across complex Estonian lowland landscapes - karstified limestone plateaus, mires, and glacial lake plains. The overarching goal is to understand how climate variability and land use shape hydrological connectivity between aquifers, wetlands, and surface waters - and how these interactions influence water quality and ecosystem resilience.

Candidate profile

- Background in geology, hydrology, hydrogeology, environmental engineering, geosciences, or a related field
- Strong interest in numerical modeling, data analysis, or programming is an advantage
- Familiarity with karst processes or peatland hydrology could be beneficial
- Curiosity, independence, and willingness to learn

Send your CV, motivation letter, and academic transcript to oliver.koit@tlu.ee

Application deadline: June 30th 2026

More information about Complex Systems in Natural Sciences PhD programme:
<https://www.tlu.ee/en/lti/complex-systems-natural-sciences-phd>