

Master Thesis in the Dept. Lake Research at UFZ

Location: Brückstrasse 3a, 39114

Magdeburg

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Thesis Topic: A Systematic Review of Lake Restoration Literature

We are offering a Master's thesis or student assistant (HiWi) position within the FERRO Project, focusing on innovative approaches to lake restoration and nutrient management across Europe. Lake restoration is a key tool for addressing eutrophication and improving water quality. However, knowledge on restoration effectiveness is often scattered across peer-reviewed publications and grey literature (e.g. project reports, technical documents). This work aims to systematically collect, structure, and analyze this information to support the development of a comprehensive European lake restoration database.

Tasks

- Systematic search and review of Peer-reviewed scientific literature and grey literature (reports, project documents, case studies)
- Extraction and compilation of key lake restoration metrics
- Structuring and harmonizing datasets across multiple sources
- Use of AI tools to translate non-English restoration reports and develop workflows for semi-automated data extraction

Your Profile

- Master's student in Environmental Science, Limnology, Hydrology, Data Science, or related fields
- Interest in Lake restoration, water quality, and environmental management
- Strong analytical and organizational skills
- Experience with literature review and data handling
- Basic programming skills (Python/R)
- Interest in AI tools (e.g. text mining, translation, data extraction)

Working Mode

The work can be conducted remotely, with an initial in-person meeting to define the scope and workflow, followed by regular check-ins (e.g. monthly) held either in person or online.