

Helmholtz Centre for Environmental Research – UFZ
Permoserstr.15 · 04318 Leipzig · Germany

Frau Christel Eißner
Bachelor Geographie
Institut für Geographie
Universität Leipzig
Johannisallee 19a
04103 Leipzig

Contact person:
Dr. Ellen Banzhaf
Head of WG Geomatics
Department Urban and Environmental
Sociology
Fon +49 341 235 1738
ellen.banzhaf@ufz.de

Leipzig, 12.01.2023

Verfassen von Bachelor-Arbeiten am UFZ / Durchführen von Praktika

Topics:

Analysis of socio-economic data supporting NBS implementation in Velika Gorica, Croatia or Paris Region, France

Starting date: Spring 2023

Motivation:

Nature based solutions (NBS) support the transformation of urban regions towards more resilience with regards to climate change. In the EC-funded project REGREEN (<https://www.regreen-project.eu/>), we aim to implement specific NBS, quantify their benefits and scientifically guide the involved urban living labs (ULLs).

Being part of the team

In REGREEN, we will substantially improve the evidence and tools to support co-creation of NBS in urban settings, implement decision support systems for planning and governance that provide multiple ecosystem services and wellbeing. Based on innovative concepts, the project will create a framework for combining quantitative and qualitative data to explain the urban need for NBS through multifunctional green infrastructure by exploring their benefits and value. In this framework, spatially explicit urban drivers and pressures will be analysed together with qualitative values of residents' perceptions and responses. This mixed methodology will consider the complex interactions between drivers, pressures and perceived valuation at the most appropriate levels. The result will serve as a synthesis to identify the most appropriate locations for future NBS interventions, in a case sensitive way.

In this work, the research question revolves around the identification of NBS demands based on socio- economic data. Based on literature review and data provided, a geographical analysis may serve to help identifying possible locations for NBS interventions, and to balance between different ecosystem services. The study will be carried out in a programming/ GIS environment of the candidate's choice.

Helmholtz Centre for Environmental Research – UFZ

Company domicile: Leipzig

Permoserstr. 15, 04318 Leipzig,
Germany
or
PF 500136, 04301 Leipzig, Germany
phone +49 341 235-0

info@ufz.de
www.ufz.de

Registration court: Leipzig district court
Commercial register No. B 4703

Chairman of the Supervisory Board:
MinDirig'in Oda Keppler

Scientific Director:
Prof. Dr. Rolf Altenburger

Administrative Director:
Dr. Sabine König

Bank details:
HypoVereinsbank Leipzig
Sort code 860 200 86
Account No. 5080 186 136
Swift (BIC) code HYVEDEMM495
IBAN No. DE12860200865080186136
VAT No. DE 141 507 065
Tax No. 232/124/00416



Tasks for the candidate

- Literature overview
- Processing of the provided datasets
- Design and establish a geographical analysis to identify the most appropriate sites for NBS
- Documentation

Technical requirements:

Knowledge of QGIS, ArcMap or scripting languages such as Python or R are required.

The thesis / internship report will be written in English.

Contact: Dr. Ellen Banzhaf, Helmholtz Centre for Environmental Research - UFZ
ellen.banzhaf@ufz.de