



Student assistant (HiWi) needed for research on vertical complexity in vegetation structure and outdoor thermal comfort

We seek a Student Assistant to support research work for the [Urban Forestry Research Group](#) and the Research Training Group [Urban Green Infrastructure \(RTG-UGI\)](#) funded by the German Research Foundation (DFG). Our aims are to conduct cutting edge, multi-disciplinary research on tackling the complex issues in urban environments and urban green infrastructure and urban forests by integrating urban planning and design, urban ecosystems, and human health. The sub-project research group in our chair aims to address the increasing urban heat stress by studying how multi-layered vegetation structures can enhance cooling efficiency and inform climate-resilient urban planning.

The “Vertical complexity in vegetation structure and outdoor thermal comfort” sub-project of the RTG-UGI will explore the relative effect sizes of the eco-physiological and morphological traits of different tree species at different growth conditions and will evaluate multidimensional canopy quality on the assessment of microclimate thermal regulations in contrasting scenarios, facilitating the scaling from site to urban neighborhoods. You will gain skills in designing research experiments, while also learning first-hand on how scientific knowledge is applied to gain insights in the field of Urban Ecology and Urban Forestry.

Tasks:

- You will mainly be supporting in carrying out field work during the summer.
- You will be assisting in collecting field data on various meteorological, Tree related physiological, TLS 3D vegetation structures and edaphic variables in several public squares throughout Munich.
- Later you will perform some basic data handling and statistical analyses.

Requirements:

- You are currently enrolled in a master’s program.
- You are interested in the topic of climate change adaptation in cities through green infrastructure.
- You enjoy hands-on work and are willing to be outdoors.

Beneficial:

- Driver’s license valid in Germany.

Details:

- Start: May 2025
- End: First contract for summer semester (09/25), renewal for winter semester and further possible.
- Workload: 10 to 12 hours per week.

How to apply:

If you are interested in the position, please send a CV with a subject header “*Application Student Assistant RTG-UGI – [Your Name]*” to Azharul Islam [azharul.islam@tum.de] or Nayanesh Pattnaik [nayanesh.pattnaik@tum.de]. This work can also be combined with a Bachelor / Master thesis or internship within our group. Please feel free to contact us if you have any queries.

We look forward to hearing from you!

