

Trade-offs and benefits of urban blue-green-grey infrastructures in local climate change adaptation and mitigation - Job opening for researcher in urban climatology

The Climatology and Environmental Meteorology working group is looking for a motivated person interested to conduct research on the trade-offs and benefits of urban blue-green-grey infrastructures in local climate change adaptation and mitigation. The newly established ReSpace! research group is a cutting-edge initiative at Technische Universität Braunschweig, bringing together a vibrant, interdisciplinary team committed to rethinking space and spatial reconfiguration in response to climate change, resource shortages, societal and environmental transformations. ReSpace! is funded by zukunft.niedersachsen, a funding programme of the Ministry of Science and Culture of Lower Saxony (MWK) and VolkswagenStiftung, as part of TU Braunschweig's project "Ecoversity – Collaborative space for change".

The aim of ReSpace! is to advance an integrated understanding of how spatial infrastructures and typologies can be transformed for climate adaptation – addressing resource constraints and societal demands in the complex interplay of global and local impacts. Building on cross-disciplinary collaboration between architecture and urban design, the humanities, social and natural sciences, and engineering, the group will co-design, narrate, simulate, and evaluate innovative solutions for future sustainable living in the context of climate change and resource scarcity. Partnering with actors – cities, municipalities, NGOs, non-university research institutions and industry – ReSpace! focuses not only on developing spatial role models, but also on transferring knowledge to regional and institutional stakeholders. ReSpace! lies at the intersection of two of the four of the TU Braunschweig's core research areas Future City and Mobility (www.tu-braunschweig.de/respace).

The successful candidate will be expected to perform the following duties: field measurements of meteorological and air pollution variables, microscale modelling (e.g. ENVI-met, PALM), data analysis, and produce work of publishable quality for high-quality peer reviewed journals. Applicants should have a first degree in atmospheric/climate sciences, geoecology or from a related discipline, preferably with experience in microscale modelling. The candidate will join a young and motivated team in Environmental Meteorology at Technische Universität Braunschweig. The position is available from 15th October 2025 with an employment duration of initially 36 months. The salary is according to German TV-L E13 (up to 100 %).

Applications are invited including:

- CV
- Letter of motivation (max. one page)
- Contact details of two potential referees

in a single pdf-document to [s.weber\(at\)tu-bs.de](mailto:s.weber(at)tu-bs.de). Please use reference code **25-ReSpace!** in your application.

Application Closing Date: 31 August 2025

Review of applications will begin immediately and continue until the position is filled. Please contact me if you are interested or if you have further questions: [s.weber\(at\)tu-bs.de](mailto:s.weber(at)tu-bs.de).

About Technische Universität Braunschweig and Ecovercity

TU Braunschweig is the academic centre in the middle of one of the most active research regions in Europe and has a renowned Faculty of Architecture. We work successfully with over 20 research institutions in our neighbourhood as well as with our international partner universities. Our university's core research areas are Mobility, Engineering for Health, Future City and Metrology. TU Braunschweig is part of TU9 - the association of Germany's leading Institutes of Technology.

With Ecovercity – Collaborative space for change TU Braunschweig is focusing on pooling the strengths of our high-performing research region and strengthening the support structures necessary for collaboration. It creates new spaces in research, teaching, administration, and knowledge transfer to enable even more intensive cross-disciplinary and cross-institutional collaboration, as well as to harness synergies between the university and research institutions, society, business, politics, and culture.