

# Modelling the effects of blue-green urban adaptation

The aim of this project is to use a combination of urban remote sensing techniques and physical models e.g. the Town Energy balance Model (TEB) to investigate the make-up of a city (e.g. the presence of blue-green infrastructure versus the fraction of impervious surfaces) and its influence on urban micro-climate (e.g. the urban heat island effect, air pollution) and the risk of pluvial flooding. Health effects could also be studied.

## Project type

The project is suitable for MSc and BSc projects.

## Pre-requisites

Numerical modelling and/or remote sensing techniques.

## Group size

1 student

## Department of supervisors

Main supervisor: DTU Management Engineering

Co-supervisors: DTU Civil Engineering, DTU Environment or DTU Space

## Contact person

Senior scientist Martin Drews, Climate Change and Sustainable Development, DTU Management Engineering ([mard@dtu.dk](mailto:mard@dtu.dk))

