

Master Geo-Information Science Internship Topic

Name of organisation internship provider: Movares
Name of contact person internship provider: Jeroen v. Boekel
Email address contact person: jeroen.van.boekel@movares.nl
Website: <https://www.movares.nl/>
Date request posted to university internship coordinator: 23 February 2021

Proposed Internship Topic

A geodata science topic related to modelling and predicting flows or classifying objects using large datasets such as public transport data, satellite imagery or point clouds.

Examples:

- Classify images with animals whom walk under railway tracks to map how infrastructure is used and provide insights to engineers to optimize designs;
- Classify 3D objects in point clouds to create a digital twin for data driven design, structural stability checks or asset management;
- Public transport, traffic or crowd management modelling;
- Land and object subsidence monitoring using radar satellite imagery.

Subject specifics and research questions will be mutually agreed upon at a later date.

Internship Activities/Duties

The intern will develop and implement models to process data into valuable information for civil engineers or clients. Furthermore, the intern builds solutions in close cooperation with the data team to improve the data platform of Movares as well as assisting Movares' domain experts to apply or perform various complex data analyses.

Special requirements

- Programming knowledge in Python or C#;
- Data science experience;
- Beneficial: civil engineering background.

Minimum duration internship

To be decided: between 4 and 6 months