

Open PhD Position

POSITION OVERVIEW:

We are seeking an ambitious and highly motivated PhD student to join our dynamic research team at the Geotechnics lab of the Civil Department at UGent. This position offers a unique opportunity to conduct advanced research in the field of geotechnical engineering, with a specific focus on the experimental and microstructural investigation of the static and dynamic behavior of soils. The successful candidate will utilize industrial Computed Tomography (CT) scans and the Discrete Element Method (DEM) to gain insights into the complex mechanical soil properties.

Additionally, this position includes the opportunity for a 6-12 months visiting scholar period at the University of Alberta, offering exposure to international research collaborations and diverse academic experiences.

QUALIFICATIONS:

- A Master's degree in Civil Engineering, Geotechnical Engineering, or a related field.
- Strong background in conducting geotechnical laboratory experiments specifically in dynamic tests.
- Proficiency in Discrete Element Method (DEM) and computational geomechanics.
- Track record of research-based publications in the above-mentioned fields.
- Strong technical writing for scientific publications.
- Strong communication skills in English
- Strong problem-solving skills.
- Ability to work well with a team and be driven and self-motivated in achieving goals.
- Motivation to work in an interdisciplinary environment.
- Image processing skills are not essential in the beginning but could be a valuable asset for this position.

HOW TO APPLY:

Interested applicants should send their applications to Prof. Mahya Roustaei (mahya.roustaei@ugent.be) using the subject line "**PhDApplication-UGent**".

A complete application should include:

- A cover letter including a brief description of research interests relative to the above topics and a motivation of why the applicant's expertise and background are appropriate for the position.
- Curriculum Vitae (CV) including a complete list of international scientific publications.
- Copies of transcripts (BSc & MSc).
- Contact information for two references.

Ghent University as one of the top-ranking universities founded in 1817, is an equal opportunity employer and encourages applications from candidates of all backgrounds. We are committed to promoting diversity and inclusion in our research community.