



Landfill response to in-situ stabilisation

Published yesterday
Deadline 8 Jun
Location Delft



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JOB DESCRIPTION

The project **CURE** (Coupled multiprocess research for reducing landfill emissions) investigates the reduction of the emission potential of landfills by in situ stabilisation measures and will develop predictive tools to forecast the pertaining processes and residual emissions. The objective of the research carried out in this particular PhD project is to quantitatively analyse the spatio-temporal response of landfills to different in-situ stabilisation measures by monitoring the change in quantity and quality of emissions through the water and gas phase as well as the change in the landfills' structural architecture. This will be achieved by high-resolution measurements of

- Leachate quantity and quality, including stable isotopes and DNA/RNA profiling
- 3D temperature time series and 3D water content time series
- Gas quantity and quality
- Stabilisation-induced consolidation.

This research will deliver a field empirical data set on the effect of the stabilisation measures which will serve as input for biogeochemical process studies and as calibration and validation data for reactive transport and hydrological models.

Specifications

- 📄 PhD
- 🏗️ Engineering
- 🕒 30.4–38 hours per week
- € €2325–€2972 per month
- 🎓 University graduate
- # CiTG20.39

Employer



Delft University of Technology (TU Delft)

[Learn more about this employer](#)

Location

Stevinweg 1, 2628 CN, Delft

[View on Google Maps](#)

REQUIREMENTS

As a successful applicant you will have:

- An MSc degree in Environmental Engineering, Environmental Sciences or Geosciences with a focus relevant to the research field
- A strong motivation for experimental work in the field and in the laboratory
- Strong skills in data processing and analysis
- An intrinsic inclination and ability to work in a team with fellow academics, technicians and industrial partners
- Good proficiency in spoken and written English language; Dutch language skills are desired or should be acquired
- The ability to write scientific publications and technical reports.

CONDITIONS OF EMPLOYMENT

Fixed-term contract: 4-5 years.

TU Delft offers PhD-candidates a 4-year contract, with an official go/no-go progress assessment after one year. In combination with a 4 days workweek (0.8 fte) a 5-year contract is possible. Salary and benefits are in accordance with the Collective Labour

Agreement for Dutch Universities, increasing from € 2325 per month in the first year to € 2972 in the fourth year based on a 1.0 fte basis. As a PhD candidate you will be enrolled in the TU Delft Graduate School. The TU Delft Graduate School provides an inspiring research environment with an excellent team of supervisors, academic staff and a mentor. The Doctoral Education Programme is aimed at developing your transferable, discipline-related and research skills.

We offer a customisable compensation package, discounts on health insurance and sport memberships, and a monthly work costs contribution. Flexible work schedules can be arranged.

EMPLOYER

Technische Universiteit Delft

Delft University of Technology (TU Delft) is a multifaceted institution offering education and carrying out research in the technical sciences at an internationally recognised level. Education, research and design are strongly oriented towards applicability. TU Delft develops technologies for future generations, focusing on sustainability, safety and economic vitality. At TU Delft you will work in an environment where technical sciences and society converge. TU Delft comprises eight faculties, unique laboratories, research institutes and schools.

DEPARTMENT

Faculty Civil Engineering and Geosciences

The [Faculty of Civil Engineering and Geosciences \(CEG\)](#) is committed to outstanding international research and education in the field of civil engineering, applied earth sciences, traffic and transport, water technology and delta technology. The research covers global social issues and is closely connected to education as well as the work of a wide range of knowledge institutions. CEG is convinced that Open Science helps to realise these goals and supports its scientists in integrating Open Science in their research practice. The Faculty of CEG comprises 28 research groups in the following seven departments: Materials Mechanics Management & Design, Engineering Structures, Geoscience and Engineering, Geoscience and Remote Sensing, Transport & Planning, Hydraulic Engineering and Water Management.

The Department of Geoscience and Engineering resides within the Faculty of Civil Engineering and Geosciences and encompasses five sections: Applied Geology, Applied Petrophysics and Geophysics, Geo-Engineering, Resource Engineering, and Petroleum Engineering. Within the Department there is considerable scope and encouragement for interdisciplinary research.

ADDITIONAL INFORMATION

For information about this vacancy, you can contact Dr. Julia Gebert, Associate Professor, email: j.gebert@tudelft.nl, tel: +31 152 782 798.

To apply, please send a detailed CV, along with a short letter of motivation, your graduate transcripts, proof of English language skills and an abstract of your MSc thesis, compiled into a single pdf file named 'CiTG20.39_YourLastname.pdf' by June 8, 2020 to recruitment-citg@tudelft.nl. When applying for this position, please refer to vacancy number CiTG20.39. Please note that applications will not be processed if all documents required are not compiled into a single pdf document.

Apply for this job

Fill in the form to apply for this job via AcademicTransfer. We will send your application to the employer.

Make sure to apply no later than
8 Jun 2020 23:59
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Personalia

First name *

Last name *

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Attachments

Upload at least one document, i.e. a cover letter and/or CV. Please note: use an alternative like a cloud service for large files as employers might refuse e-mails that exceed their companies policy.

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