

## Assistant professor Geo-environmental engineering

Can we engineer biogeochemical processes to enhance to mitigate risks from contaminated sites such as mine tailings and landfills? This is one of the challenges that you help solve within this Tenure Track at TU Delft.

Within the Department Geoscience and Engineering of the Faculty of Civil Engineering and Geosciences we are working hard to prepare our students for the future challenges in the field of Resource and Waste Engineering in the context of a circular economy. Our new MSc programmes Applied Earth Science and Environmental Engineering will start in September 2022.

As Assistant Professor Geo-environmental engineering you will focus on topics such as:

- Environmental impacts of resource utilization
- (mine) waste management in the context of a circular economy and the energy transition
- Remediation of contaminated sites
- Use of biogeochemical processes in subsurface engineering
- Reactive transport processes
- Organic matter conversion processes
- Numerical modelling of the pertaining processes.

Besides teaching, the successful applicants are expected to develop a strong research portfolio in their specialization which is closely aligned with their teaching portfolio.

The key job responsibilities of the successful candidate include:

- **Education:** Organizing, initiating and contributing to the development and teaching of graduate courses in our new MSc programs Environmental Engineering and Applied Earth Sciences. Supervising BSc and MSc students, preparing and assessing assignments and exam papers.
- **Valorisation:** Initiating and contributing to new research projects. We encourage proactive engagement with both government and private partners for increased societal impact.
- **Research:** Contributing to delivering high quality, internationally leading research related to Geo-Resource Engineering. Reference and Resources and Waste Engineering
- **Organisation:** Contributing to organizational / administrative activities and committees specifically related to education within the Department of Geo-science & Engineering and the Faculty of Civil Engineering and Geosciences.

Contact: Dr. habil. Julia Gebert, [j.gebert@tudelft.nl](mailto:j.gebert@tudelft.nl)