

## SUPER – Stuttgart University Program for Experiencing Research Project Information

Institute's information	
Name of Institute	Research Facility for Subsurface Remediation (VEGAS), University of Stuttgart
Contact Person	PD DrIng. Claus Haslauer
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Duration of Project	ct/Number of Students
June/July	<b>X</b>
June/July/August	
Number of Student	s <u>1</u>
Name of Project	Mobility of Contaminants
	Testing Immobilization Approaches with PFAS-contaminated Soils
Beneficial Skills & Knowledge	Experimental/practical work in our test facility and analytical laboratory
	mathematical/numerical modelling can be explored if this is desired

## **Description of Work**

Per- and polyfluorinated alkylated substances (PFAS) are ubiquitous and pose a threat to groundwater quality. Typical sources are large scale non-point pollution related to agricultural practices and point pollution originating from firefighting foams. Due to the mobility and persistence of PFAS with more than 4000 compounds, research regarding their environmental fate, transport in the subsurface, and innovative remediation approaches is necessary.

Our project addresses the challenges to immobilize PFAS in the soil. Therefore, we conduct experiments on various scales and under various saturation conditions. These include batch as well as column and lysimeter experiments. The SUPER-student will be involved in the set-up, operation, and evaluation of batch-, column and pilot scale experiments. If motivated, numerical modelling of PFAS transport is an option.

