



## INTERNSHIP PROGRAMME



Code: (Partner Acronym) UNIGOE\_02

<b>Title</b>	Lab training: „Biogeochemical Cycles at the Interface of Urban-Rural Systems“
<b>Initial date (2020)</b>	<i>February 2020</i>
<b>End date (2020)</b>	<i>March 2020</i>
<b>Number of positions (max)</b>	<i>Max. 2 students</i>
<b>Required knowledge and skills</b>	<i>Participation in web-based training on biogeochemical cycles</i>
<b>Academic coordinator</b>	<i>Prof Dr M Dippold, dippold@gwdg.de</i>
<b>Objectives</b>	<i>The students will understand the fundamental concept of biogeochemical cycling, i.e. of pools, fluxes and transformations. Students will learn how to characterise crucial functions of the soil in both urban and rural environments</i>
<b>Short course modules<sup>1</sup></b>	<p><b>Keynote lectures</b></p> <p><i>Based on the prior knowledge of the WBT on biogeochemical cycles, the students will receive short intensive keynote lectures on the three element cycles (C, N, P).</i></p> <p><b>„State-of-the-Art of Biogeochemical Research“</b></p> <p><i>Students will attend a 30-min presentation (+ discussion) on a current topic of biogeochemical research</i></p> <p><b>„Lab Methods at the Interface of Urban-Rural Systems“</b></p> <p><i>Soil samples taken from a gradient ranging from the city centre to the rural environment will be analysed for soil nutrients and microbial functions (MBC, MBN, MBP) and linked to the CNP stoichiometry. Methodological basics will be introduced (TOC-L, EA, photometry)</i></p>
<b>Internship activities</b>	<i>Lab work and lectures</i>
<b>Hosting institution</b>	<i>Georg-August-University Göttingen</i> <a href="http://www.uni-goettingen.de">www.uni-goettingen.de</a>



<b>Academic tutor</b>	<i>Dr Callum Banfield</i>
<b>Hosting institution tutor</b>	<i>NN</i>
<b>Additional notes</b>	<i>The program includes an internship with one of our industrial partners. Students should visit the website or contact the UNIGOE team to identify opportunities and create a tailor-made application for the respective industry partner.</i>

CVs of lecturer:

<b>Michaela A. Dippold</b>	Affiliation: University of Goettingen, Biogeochemistry of Agroecosystems, Germany  Work area: Soil biogeochemistry  Education: Diploma in Geoecology, PhD in Natural Sciences	
<b>Callum C. Banfield</b>	Affiliation: University of Goettingen, Biogeochemistry of Agroecosystems, Germany  Work area: Soil biogeochemistry  Education: Diploma in Geoecology, PhD in Natural Sciences (soil science)	
<b>Moritz Köster</b>	Affiliation: University of Goettingen, Biogeochemistry of Agroecosystems, Germany  Work area: Soil biogeochemistry  Education: BEng in Applied Physics, MSc in Biogeosciences	