

## Thesis Project Offer

*Joint Research and Education Programme "Palestinian-German Science Bridge PGSB"  
Forschungszentrum Jülich GmbH & Palestine Academy for Science and Technology*

### Thesis type\*

<input checked="" type="checkbox"/> BSc	<input type="checkbox"/> MSc	<input type="checkbox"/> PhD	Intended starting date (approx.): 08/2023
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### Contact details of supervisor/responsible host at Forschungszentrum Jülich

Title*	Degree	First name*	Surname*
Mr.	Dr	Arnd	Kuhn

Phone*	E-mail*
02461614386	a.kuhn@fz-juelich.de

Function*	Institute and homepage of institute*
Senior researcher	IBG-2 <a href="https://www.fz-juelich.de/de/ibg/ibg-2">https://www.fz-juelich.de/de/ibg/ibg-2</a>

University affiliation in Germany*
cooperation with University Bonn and FH Aachen

### Co-Supervisor at Palestinian university (if applicable)

Title	Degree	First name	Surname
Title	Degree		

Phone	E-mail

University/institution	Department/faculty/institute

### Project description\*

This is a topic within the Agricultural Sustainability Cluster; headed by Dr. Silvia Schrey. Supervisors during the projects are Silvia Schrey (s.schrey@fz-juelich.de), Arnd Kuhn (a.kuchen@fz-juelich.de) and Christina Kuchendorf (c.kuchendorf@fz-juelich.de). Existing partner supervisors at Palestine Polytechnic University are Prof. Sharaf Taradeh and Prof. Rami Arafeh.

Currently we focus on nutrient cycling towards a better bioeconomy by means of biochar-amended fertilization. The involved processes and changes in physical (e.g. water content, salinity, nutrient availability...) as well as biological parameters (plant root behaviour, microbial communities, microrhiza,...) in soil are to a large degree still unexplored. The impact on plant performance and the goal to decrease fertilizer use or make poorer substrates easier accessible for agriculture are other important aspects.

We offer in irregular intervals options to do bachelor/master thesis work within this topic frame due to ongoing projects. Please contact us for more detailed topic info.

Date*	Signature*
31.1.2023	

\* required field