

Study Project/ Master's Thesis Position

Dear Students,

Here at the Chair of Circular Economy we are offering a position for a study project or a master's Thesis position. You could start with a study project and continue into a thesis as well. Below given is a brief description on the topic and application procedure.

Topic: *Investigating the use of biochar for Ammonium Adsorption*

The research focuses on the utilization of biochar, a carbonaceous material derived from the pyrolysis of biological waste under anoxic conditions. Biochar exhibits various applications, including its notable adsorption capabilities. While prior studies have explored adsorption phenomena in solid-liquid phases, our objective is to delve into the fundamental mechanisms involved in the adsorption of ammonium on biochar.

Expectations:

- Explanation of Adsorption in Solid-Liquid Phases.
- Literature Review on existing models and its application.
- Perform experiments for isotherm and kinetic studies.

The information "Basic regulations for written reports of students" should be considered. There is an obligation to maintain secrecy about all procedures and results in connection with this topic.

Beginning Date: **As soon as possible**

Supervisor: M.Sc. Savannah Baptist, Prof. Christian Abendroth.

Please send your application to savannah.baptist@b-tu.de with a cover letter and CV.