

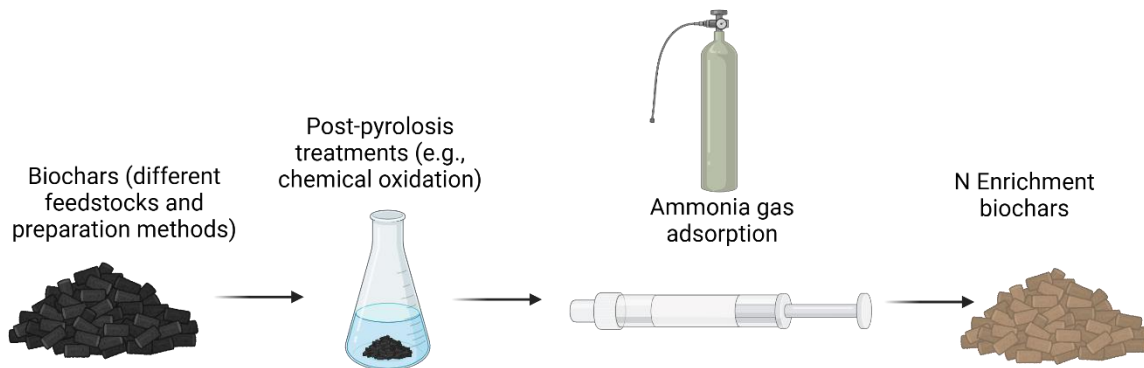


Laboratory Investigation of Biochar Feedstock and Post-Pyrolysis Techniques for Enhanced Ammonia Gas Sorption

Description

We are looking for a student to work in a lab-scale experiment to investigate the influence of biochar types (feedstock and production characteristics) and post-pyrolysis techniques (e.g., chemical oxidation) on improving the N-sorption from ammonia gas into biochar. The AgriCascade project aims to use biochar as a filter to capture ammonia gas from natural emitters (manure and composting), thus reducing direct NH_3 and indirect N_2O emissions while producing an N-rich biochar fertilizer. This laboratory phase will serve as the base for the industrial-scale production of biochar filters.

Opportunities are open for internships and master's degree theses



Tasks

- Development and testing of a laboratory adsorption system. Conducting adsorption tests.

Qualifications

- Background in Environmental sciences, chemistry, agriculture, or a related field
- Experience with laboratory techniques, preferentially with sorption/desorption experiments.

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AgriCascade Project



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